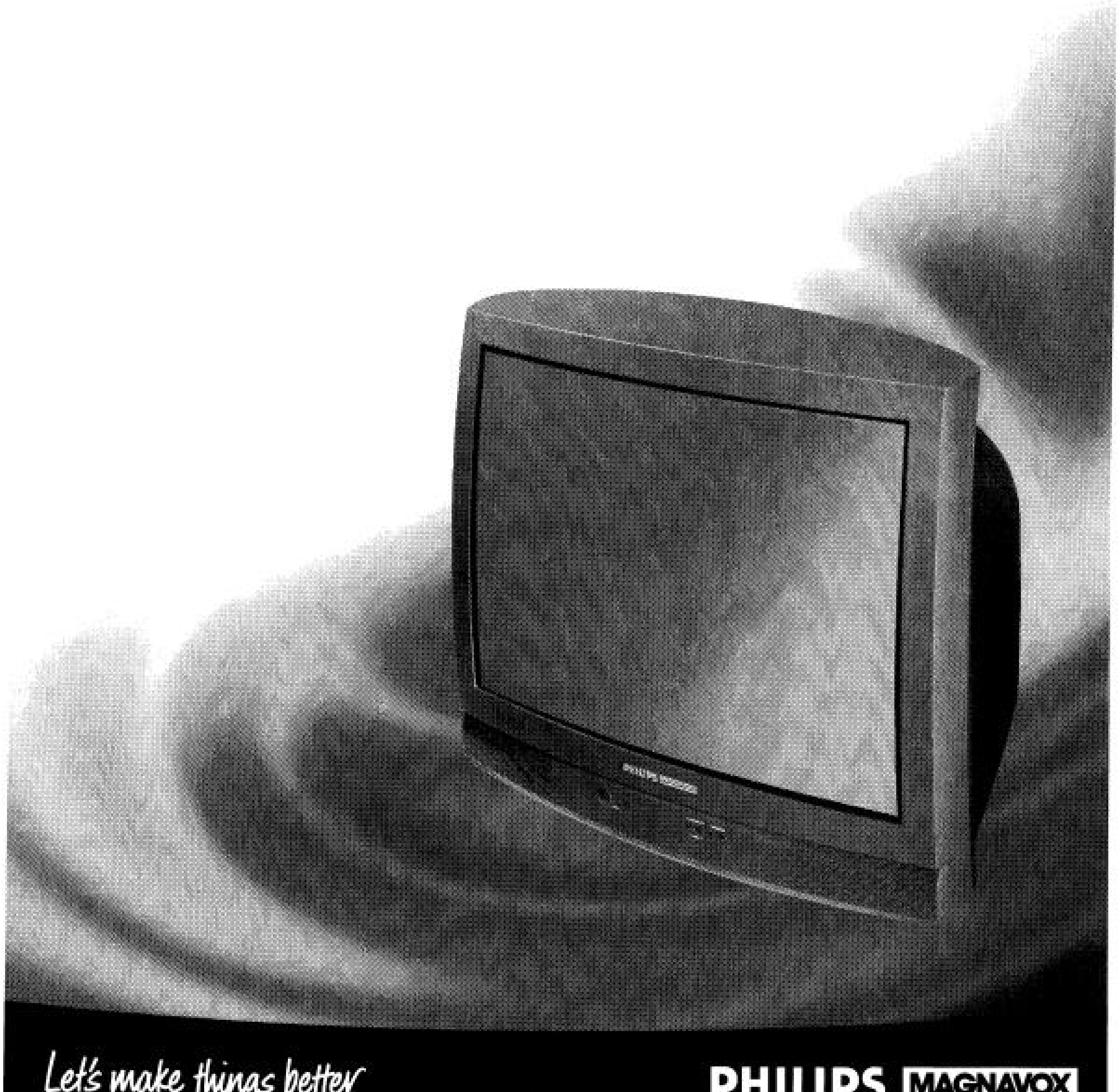
Color Television

MX2791B1

Instructions for use



Let's make things better.

PHILIPS MAGNAVOX

3135 015 04460

Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your PHILIPS MAGNAVOX purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS MAGNAVOX product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

• Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS MAGNAVOX warranty.

• Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

• Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

REGISTRATION NEEDED WITHIN 10 DAYS

Hurry!

Congratulations on your **purchase,**
and welcome to the **"family!"**

PHILIPS MAGNAVOX

Dear PHILIPS MAGNAVOX product owner:

Thank you for your confidence in PHILIPS MAGNAVOX. You've selected one of the best-built, best-backed products available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS MAGNAVOX "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome–and thanks for investing in a PHILIPS MAGNAVOX product.

Sincerely,

Robert Minkhorst
President and Chief Executive Officer

P.S. Remember, to get the most from your PHILIPS MAGNAVOX product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

Know these **safety** *symbols*

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

SAFETY INSTRUCTIONS - Read before operating equipment

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

1. **Read Instructions** - All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** - The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** - All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions** - All operating and use instructions should be followed.
5. **Water and Moisture** - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc.
6. **Carts and Stands** - The appliance should be used only with a cart or stand that is recommended by the manufacturer.

6A.  An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

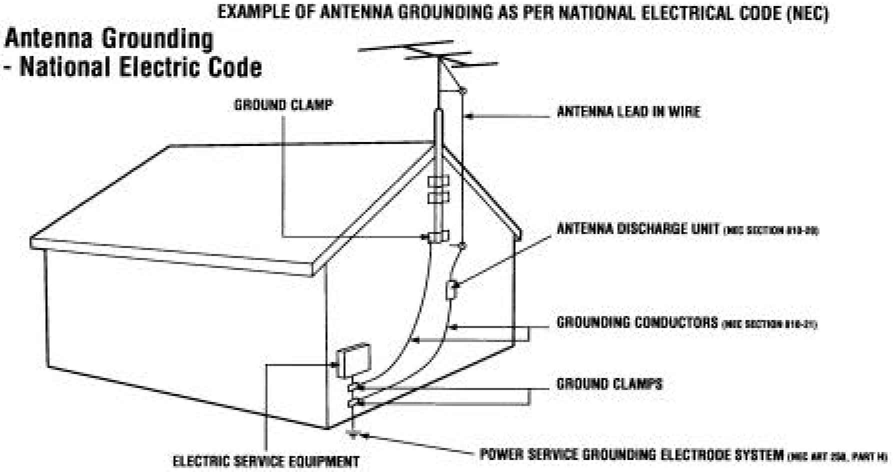
7. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. **Ventilation** - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. **Heat** - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. **Power Sources** - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. **Power-Cord Protection** - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
12. **Cleaning** - The appliance should be cleaned only as recommended by the manufacturer.
13. **Power Lines** - An outdoor antenna should be located away from power lines.
14. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.

    Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mats and supporting structure grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See Fig. below.
15. **Non-use Periods** - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
16. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
17. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
    - A. The power supply cord or the plug has been damaged; or
    - B. Objects have fallen, or liquid has been spilled into the appliance; or
    - C. The appliance has been exposed to rain; or
    - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
    - E. The appliance has been dropped, or the enclosure damaged.
18. **Servicing** - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE (NEC)

Example of Antenna Grounding as per NEC - National Electric Code



MAC3964

Table of Contents

Introduction

On-Screen MENU

Picture

Features

Sound

Remote Control Operation

Picture-In-Picture (PIP)

General Information

Quick Use/Installation Guide

Getting Started

Features

Infrared Remote Control works your TV set, VCR, and a variety of wireless remote control Cable Converters (Satellite Receivers, DVD, etc.).

Standard broadcast (VHF/UHF) or Cable TV (CATV) channel capability.

Stereo TV with built-in audio amplifier and twin speaker system for receiving TV programs broadcast in stereo sound.

Closed Captioning allows the viewer to read TV program dialogue or voice conversations as on-screen text.

Automatic Programming of Channels for quick and easy selection of favorite stations available in your area.

On-Screen Features (in either English, French, or Spanish) show helpful messages for setting of TV controls.

Audio/Video Jackpanel for direct connections with VCRs (or other video accessories) providing quality TV picture and sound playback.

Twin Antenna (A/B) Inputs for easy displaying of two separate signal sources on the TV. An A/B button on the remote control switches the TV's Main screen between the two Antenna (A & B) Input options.

Surround Sound external speaker connections allow you hook your TV to external audio equipment for more dynamic sound replay and audio effects.

On Timer automatically turns the TV ON at a preset time, and channel.

Sleep-Timer automatically turns the TV OFF at preset times.

SmartLock feature allows you to block the viewing of certain channel or external audio/video connections were you might not want your children viewing inappropriate material.

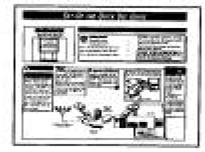
Smart Picture allows you to set the picture color, tint, contrast, etc. for various types of programming such as Sports, Movies, Multi Media (Gaming), or Weak Signals with the push of one button.

Smart Sound controls the sudden volume changes that occur when changing programs or when a commercial break comes on. It eliminates the peaks and valleys in the TV's sound with one pleasant listening level.

Picture-In-Picture (PIP) allows you view two different programs (or picture sources) on the TV screen at the same time. PIP will also let you swap the pictures, move the PIP picture to any of the four corners, and even freeze the picture until you shut it off.

Set-Up and Quick Use Guide

Use the simple Set-Up Guide (supplied with your TV information packet) for details on:



- Cable/Antenna Hook-ups
- Auto-Programming of Channels
- Channel Editing
- Automatic Clock Setting (Smart Clock)
- Basic TV and Remote Control Operation
- On-Screen Menu Use

NOTE: This owner's manual content may be used with several different television models. Not all features (and drawings) discussed in this manual will necessarily match those found with your television system. This is normal and does not require you contacting your dealer or requesting service.

End-of-Life Disposal

Your new television and its packing contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and minimize the amounts which need to be properly disposed.

Your product also uses batteries which should not be thrown away when depleted, but should be disposed of as small chemical waste.

Please find out about the local regulations on how to dispose of your old television, batteries, and packing materials whenever you replace existing equipment.

How to Adjust the TV Picture

To adjust your TV picture controls, select a channel and follow the steps shown below:

BEGIN

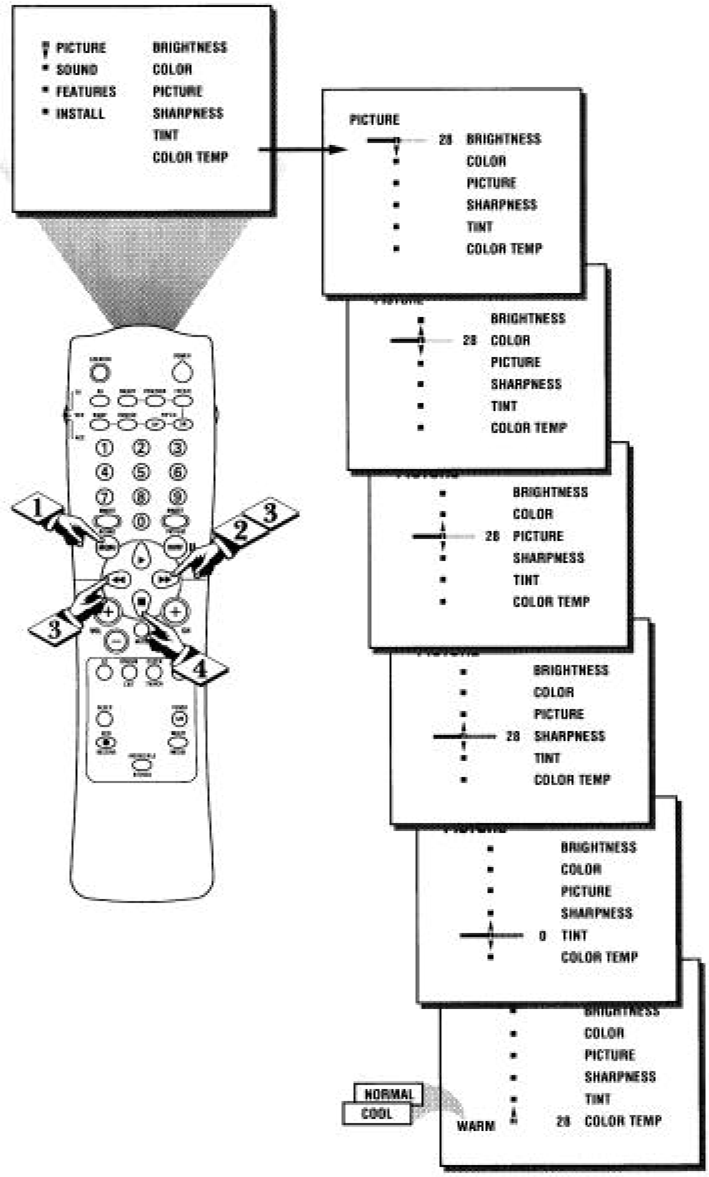
1. **Press the MENU button** on the remote to show the on-screen menu. **PICTURE** will be highlighted.

2. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the right to display an adjustment bar in front of the **BRIGHTNESS** control.

3. **Use the CURSOR LEFT ◀◀ or RIGHT ▶▶ buttons** to adjust the **BRIGHTNESS** level of the picture.

4. After adjusting the BRIGHTNESS control, **press the CURSOR DOWN ■ button** to select another Picture adjustment; **COLOR, PICTURE, SHARPNESS, TINT, or COLOR TEMP.** Use the **CURSOR LEFT ◀◀** or **CURSOR RIGHT ▶▶ buttons** to adjust the selected control.

STOP



Smart Help

Remember, when the bar scale is centered, the control settings are at normal mid-range levels.

BRIGHTNESS Press the ▶▶ or ◀◀ buttons until darkest parts of the picture are as bright as you prefer.

COLOR Press the ▶▶ or ◀◀ buttons to add or eliminate color.

PICTURE Press the ▶▶ or ◀◀ buttons until lightest parts of the picture show good detail.

SHARPNESS Press the ▶▶ or ◀◀ buttons to improve detail in the picture.

TINT Press the ▶▶ or ◀◀ buttons to obtain natural skin tones.

COLOR TEMP Press the ▶▶ or ◀◀ buttons to select NORMAL, COOL, or WARM picture preferences. (NORMAL will keep the whites, white; COOL will make the whites, bluish; and WARM will make the whites, reddish.)

Setting the TV's Clock

Your television comes with an on-screen clock. During normal operation the clock appears on the screen when the STATUS/EXIT button is pressed or if the Timer DISPLAY control is turned ON.

BEGIN

1. **Press the MENU button** on the remote to show the on-screen menu. **PICTURE** will be highlighted.
2. **Press the CURSOR DOWN ■ button** twice to select the **FEATURES** menu.
3. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left to display the **TIMER** controls.
4. **Press the CURSOR RIGHT ▶▶ button again** to shift the display left and highlight the **TIME** control.
5. **Press the CURSOR RIGHT ▶▶ button again** to highlight the time indicator area.
6. **Press the NUMBERED buttons** to enter the correct time. *(Use the CURSOR UP ▶ or CURSOR DOWN ■ buttons to set AM or PM.)*

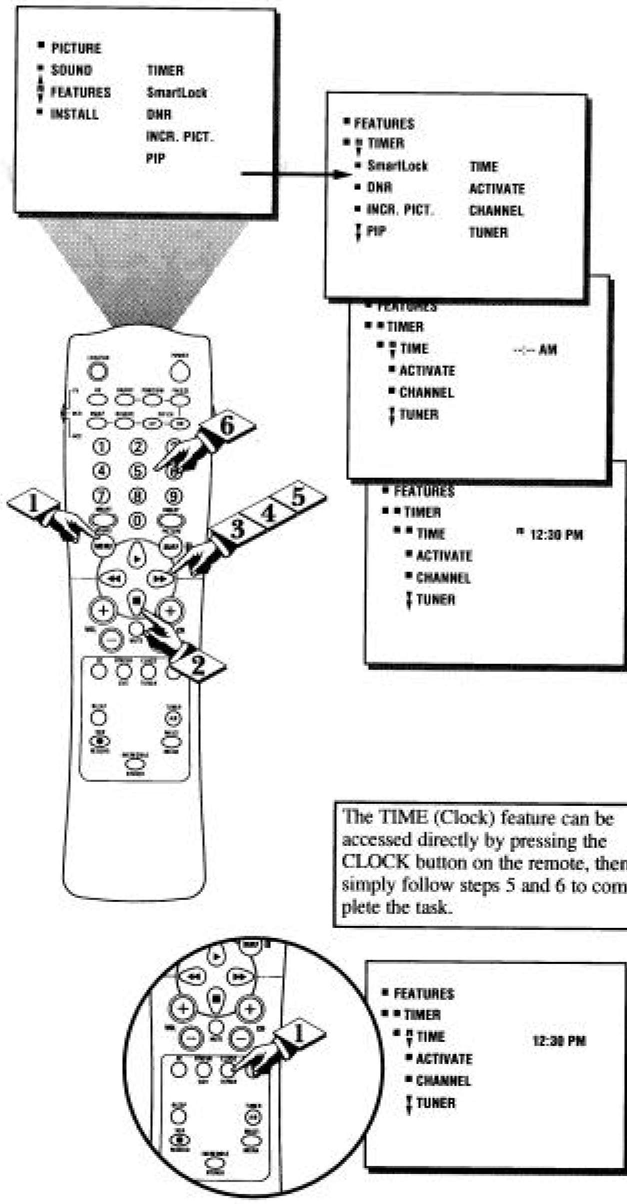
STOP

Smart Help

Remember, be sure to press "0" first and then the hour number for single digit entries.

The Clock can also be set automatically using the Smart Clock feature found on page 2 of the Quick Use Guide.

The television's clock settings may be lost when it is unplugged (or AC power to the set is interrupted.)



The TIME (Clock) feature can be accessed directly by pressing the CLOCK button on the remote, then simply follow steps 5 and 6 to complete the task.

Activating the TV's On Timer Control

Just like an alarm clock you can set the TV to turn itself on at the same time everyday.

BEGIN

1. **Press the MENU button** on the remote to show the on-screen menu. **PICTURE** will be highlighted.

2. **Press the CURSOR DOWN ■ button** twice to select the **FEATURES** menu.

3. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left to display the **TIMER** controls.

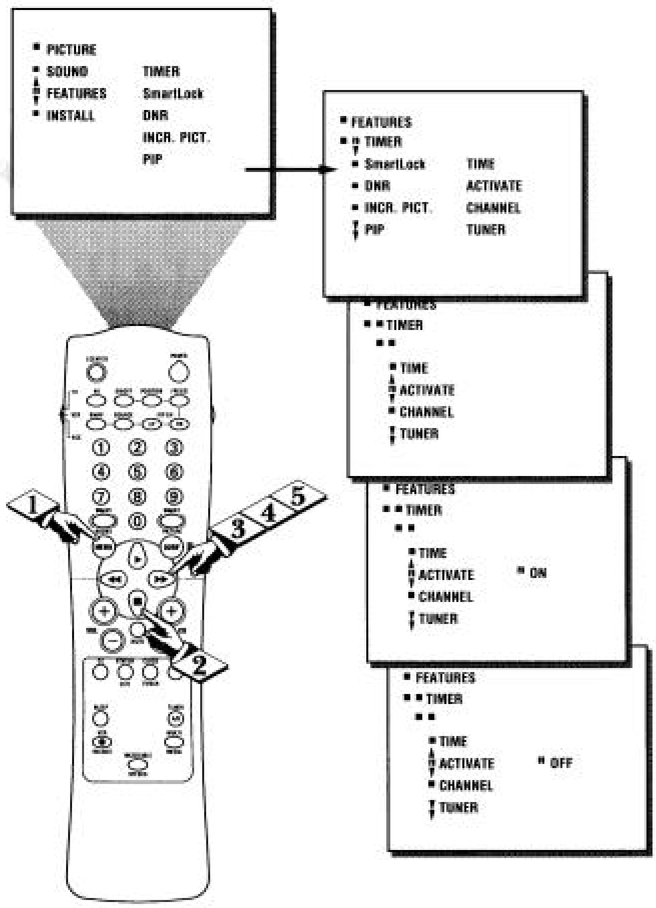
4. **Press the CURSOR RIGHT ▶▶ button again** to shift the display left, then **CURSOR DOWN ■** to highlight the **ACTIVATE** timer control.

5. **Press the CURSOR RIGHT ▶▶ button again** to highlight the ACTIVATE timer option. Then, press the CURSOR UP ▶ or CURSOR DOWN ■ buttons to turn the timer ON or OFF.

STOP

Smart Help

Remember, be sure to set the time you want the television to turn on using the START TIME control as described on page 10.



Selecting the TV's On Timer Channel

Used along with the on timer feature, you can select a specific channel that the television will tune to when the Timer ACTIVATE control is turned ON.

BEGIN

1. **Press the MENU button** on the remote to show the on-screen menu. **PICTURE** will be highlighted.

2. **Press the CURSOR DOWN ■ button** twice to select the **FEATURES** menu.

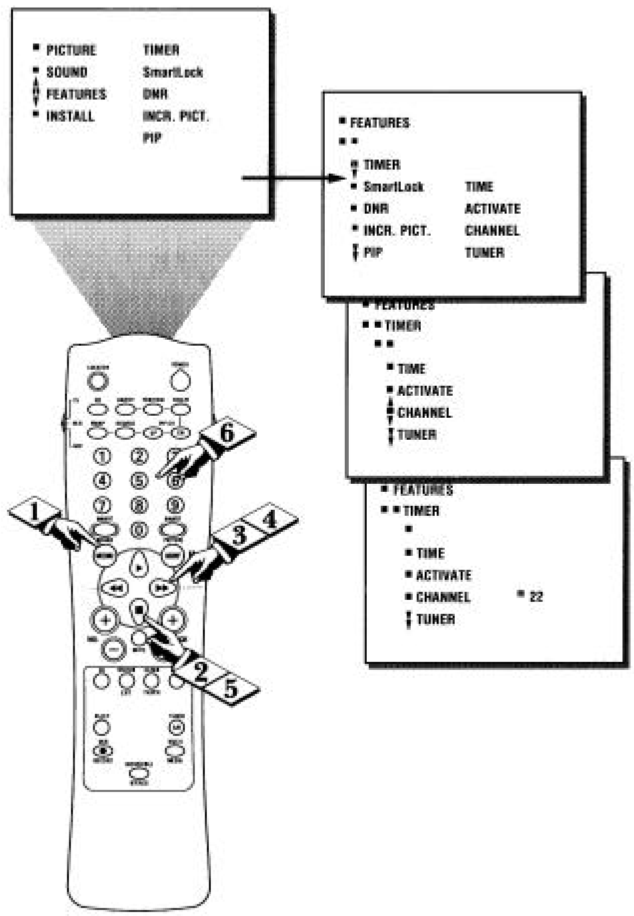
3. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left to display the **TIMER** controls.

4. **Press the CURSOR RIGHT ▶▶ button again** to shift the display left, then **CURSOR DOWN ■** to highlight the **CHANNEL** control.

5. **Press the CURSOR RIGHT ▶▶ button again** to highlight the channel indicator area.

6. **Press the NUMBERED buttons** to enter the desired start up channel. *(Or, use the CHANNEL (+) or (–) buttons to select the desired channel.)*

STOP



Smart Help

Remember, be sure to turn the Timer ACTIVATE control ON after selecting the desired start up channel. *(Refer to page 8 for further details.)*

SETTING THE TV'S ON TIMER TUNER

Your TV is equipped with two tuners. The TV can be programmed to tune to either ANT A or ANT B when the on timer is set.

BEGIN

1. **Press the MENU button** on the remote to show the on-screen menu. **PICTURE** will be highlighted.

2. **Press the CURSOR DOWN ■ button** twice to select the **FEATURES** menu.

3. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left to display the **TIMER** controls.

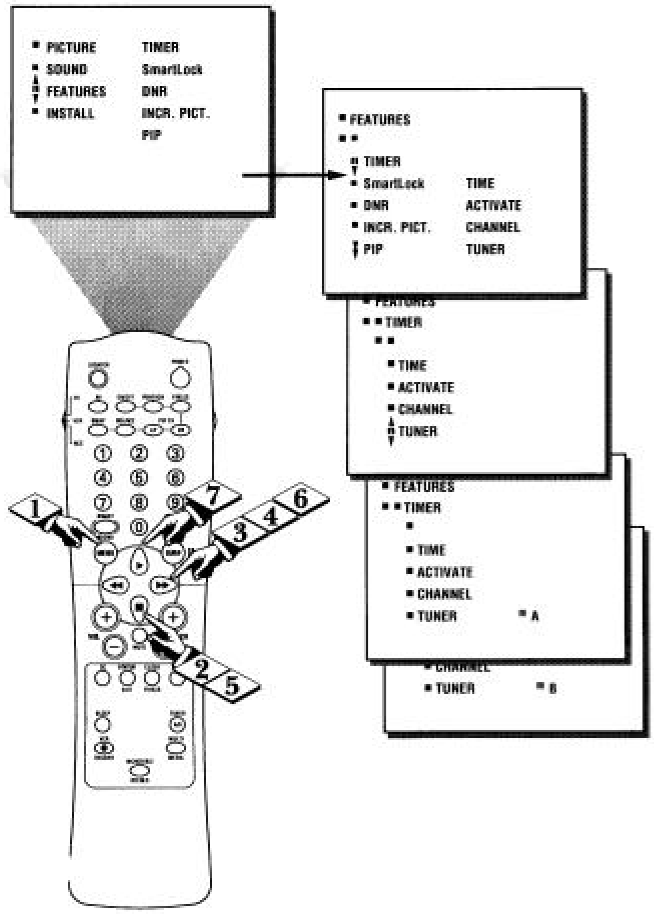
4. **Press the CURSOR RIGHT ▶▶ button again** to shift the display left.

5. **Press the CURSOR DOWN ■** to highlight the **TUNER** control.

6. **Press the CURSOR RIGHT ▶▶ button again** to highlight the TUNER A or B control options.

7. **Press the CURSOR UP ▶ or CURSOR DOWN ■** buttons to select the "A" or "B" tuner inputs.

STOP



SETTING THE TV'S ON TIMER START TIME

Used along with the on timer feature, you can select a specific time the television will turn on when the Timer ACTIVATE control is turned ON.

BEGIN

1. **Press the MENU button** on the remote to show the on-screen menu. **PICTURE** will be highlighted.

2. **Press the CURSOR DOWN ■ button** twice to select the **FEATURES** menu.

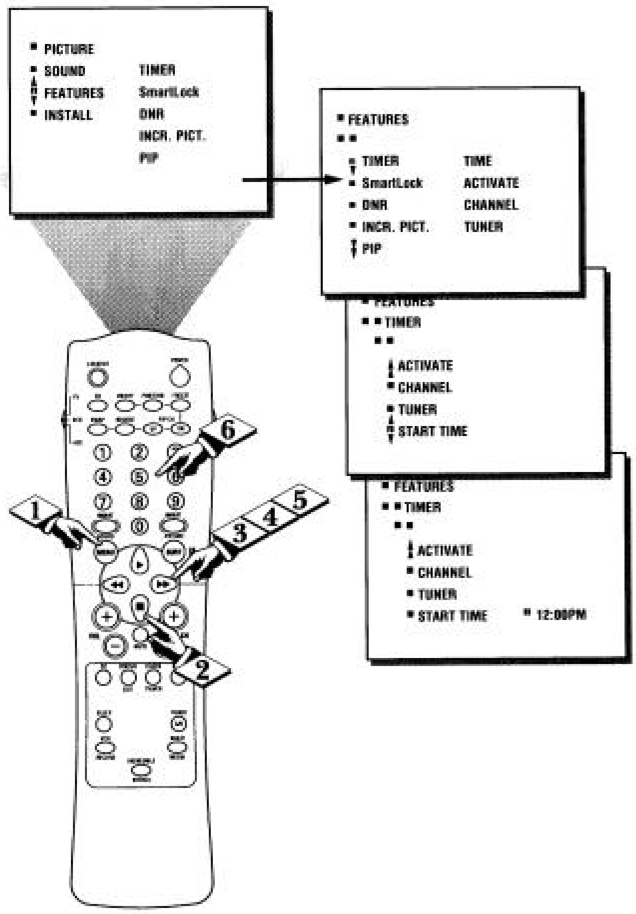
3. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left to display the **TIMER** controls.

4. **Press the CURSOR RIGHT ▶▶ button again** to shift the display left, then **CURSOR DOWN** ■ to highlight the **START TIME** control.

5. **Press the CURSOR RIGHT ▶▶ button again** to highlight the time indicator area.

6. **Press the NUMBERED buttons** to enter the desired start up time. *(Use the **CURSOR UP** ▶ or **CURSOR DOWN** ■ buttons to set AM or PM.)*

STOP



SMART HELP

Remember, be sure to turn the Timer ACTIVATE control ON after setting the desired start up time. *(Refer to page 8 for further details.)*

Setting the TV's On Timer Display

Once the television clock has been set, you can use your television as a clock. The Timer DISPLAY control allows you to permanently display the time in the upper right corner of the screen.

BEGIN

1. **Press the MENU button** on the remote to show the on-screen menu. **PICTURE** will be highlighted.

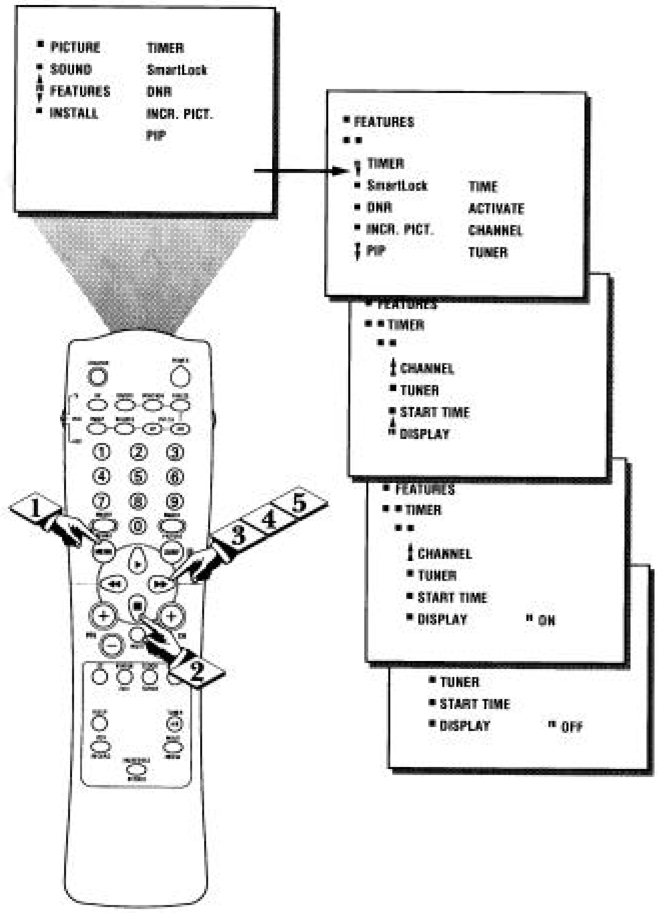
2. **Press the CURSOR DOWN ■ button** twice to select the **FEATURES** menu.

3. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left to display the **TIMER** controls.

4. **Press the CURSOR RIGHT ▶▶ button again** to shift the display left, then **CURSOR DOWN ■** to highlight the **DISPLAY** control.

5. **Press the CURSOR RIGHT ▶▶ button again** to highlight the DISPLAY control options. Then, press the CURSOR UP ▶ or CURSOR DOWN ■ buttons to turn the timer ON or OFF.

STOP



Smart Help

Remember, be sure you have set the television's clock with the correct current time. *(Refer to page 7 to set the Clock Manually or page 2 of the Quick Use Guide to set the Clock Automatically using the Smart Clock feature.)*

Using the Smart Lock (Setup Code) Control

Smart Lock allows parents to block out, or "censor" any channels they think children should not watch. A channel blocked by the Smart Lock control cannot be viewed until a correct access code is used to unlock the channel for viewing. First let's set your Smart Lock access code:

BEGIN

1. **Press the MENU button** on the remote to show the on-screen menu. **PICTURE** will be highlighted.

2. **Press the CURSOR DOWN ■ button** twice to select the **FEATURES** menu.

3. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left, then **CURSOR DOWN ■** to highlight the **SMART LOCK** control.

4. **Press the CURSOR RIGHT ▶▶ button again** to shift the display left, then **CURSOR DOWN ■** to highlight **SETUP CODE.**

5. **Press the CURSOR RIGHT ▶▶ button. "---- Enter current access code"** will appear within the menu.

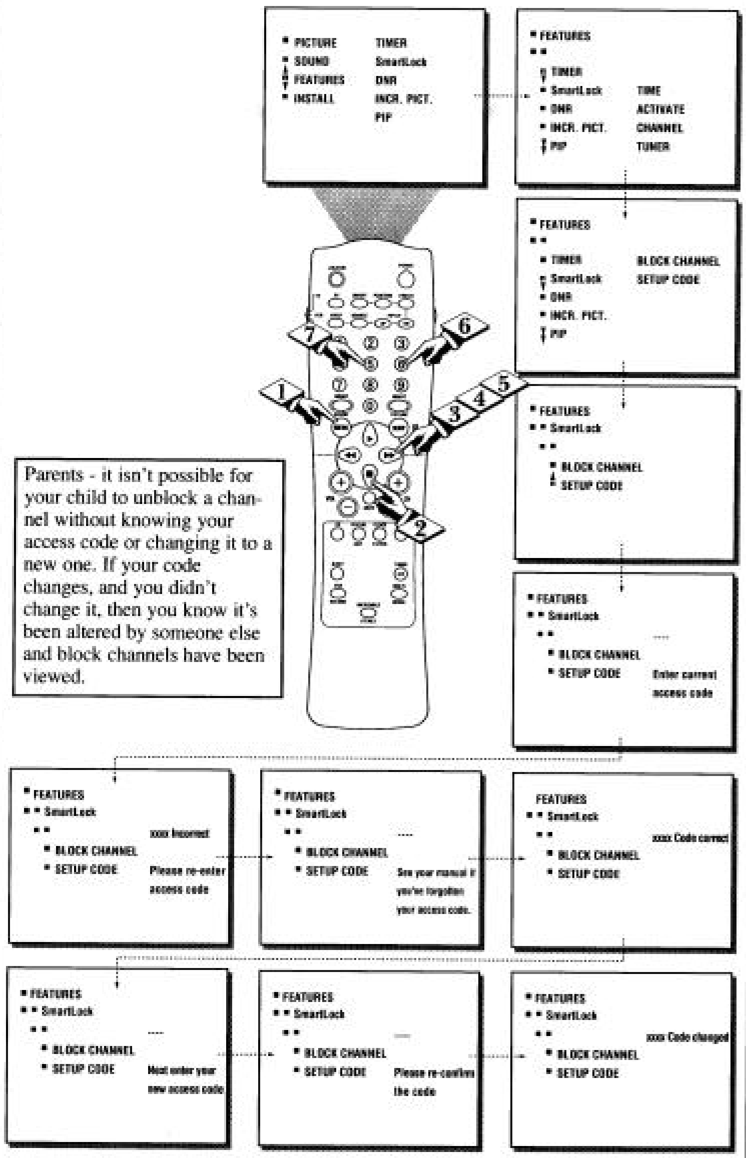
6. **Press 0, 7, 1, 1 on the remote. "XXXX"** shows on the SETUP CODE display as you **press the NUMBER buttons. "XXXX Incorrect - Please re-enter your access code"** will appear. **Re-enter the 0, 7, 1, 1** code on the remote. **"XXXX Code Correct"** will appear.

7. **"Next enter your new access code"** shows on the screen. **Press the NUMBER buttons** on the remote to enter a *NEW* four digit code. Confirm your new code by re-entering it again.

"XXXX Code changed" shows on the screen to let you know the new code has been set.

Continue to the next page to learn how to block channels from viewing.

NOTE: The 0,7,1,1 access code shown on this page is the default code or way to reset the code when the current access code is not known.



Parents - it isn't possible for your child to unblock a channel without knowing your access code or changing it to a new one. If your code changes, and you didn't change it, then you know it's been altered by someone else and block channels have been viewed.

Using the Smart Lock (Block Channel) Control

After your personal access code has been set (see previous page), you are now ready to select up to 5 channels or inputs to block out or censor.

BEGIN

1. **Press the MENU button** on the remote to show the on-screen menu. **PICTURE** will be highlighted.
2. **Press the CURSOR DOWN ■ button** twice to select the **FEATURES** menu.
3. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left, then **CURSOR DOWN ■** to highlight the **SMART LOCK** control.
4. **Press the CURSOR RIGHT ▶▶ button again** to shift the display left, the **BLOCK CHANNEL** control will be highlighted.
5. **Press the CURSOR RIGHT ▶▶ button. "---- Enter current access code"** will appear within the menu.
6. **Enter the correct access code number. "XXXX"** shows on the SETUP CODE display as you **press the NUMBER buttons. "XXXX Code correct"** will appear.
7. **Press the CHANNEL (+) or (–) buttons** (or NUMBER buttons) to select the channel you want to block.
8. **Press the CURSOR RIGHT ▶▶ button** to block viewing of the channel, or the **CURSOR LEFT ◀◀** button to allow viewing of the channel.

Repeat steps 5 through 7 for any other channels you wish to block from viewing.

Note: You can also block out the use of the A/V external inputs on the rear of the TV. This stops the viewing of VCR, DVD, etc., programs which can be shown through the A/V Input jacks. Select AV 1, AV 2, or SVID-R, MM1, MM2, MM3, and select block.

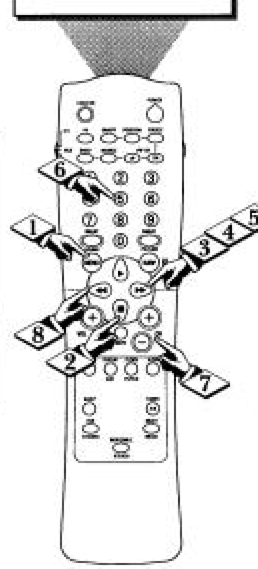
PICTURE / SOUND / FEATURES / INSTALL — TIMER / SmartLock / DNR / INCR. PICT. / PIP

FEATURES — TIMER / SmartLock / DNR / INCR. PICT. / PIP — TIME / ACTIVATE / CHANNEL / TUNER

FEATURES — TIMER / SmartLock / DNR / INCR. PICT. / PIP — BLOCK CHANNEL / SETUP CODE

FEATURES — SmartLock — BLOCK CHANNEL / SETUP CODE

FEATURES — SmartLock — BLOCK CHANNEL / SETUP CODE — ---- Enter current access code



Any channel that has been blocked will be skipped when the Channel (+) and (–) buttons are used to scan all available channels. To view a blocked channel, press the number buttons on the remote to directly access the channel and refer to the Unblocking Channels section below.

FEATURES — SmartLock — xxxx Code correct — BLOCK CHANNEL / SETUP CODE

FEATURES — SmartLock — CHANNEL 22 — BLOCK CHANNEL ALLOWED / SETUP CODE — Select channel Please press ◀ to block viewing

FEATURES — SmartLock — CHANNEL 22 — BLOCK CHANNEL BLOCKED / SETUP CODE — Select channel Please press ◀ to allow viewing

Unblocking Channels

1. Access the blocked channel directly by using the number buttons on the remote control.
2. Enter your four digit access code.
3. All blocked channels will be viewable until the TV is turned off. When the TV is turned back on, the blocked channels will not be viewable.

1: CHANNEL 22 / Blocked by SmartLock / ---- / Please enter access code or select another channel

2: CHANNEL 22 / Blocked by SmartLock / XXXX / Please enter access code or select another channel

3: All channels can be viewed until the TV is turned off.

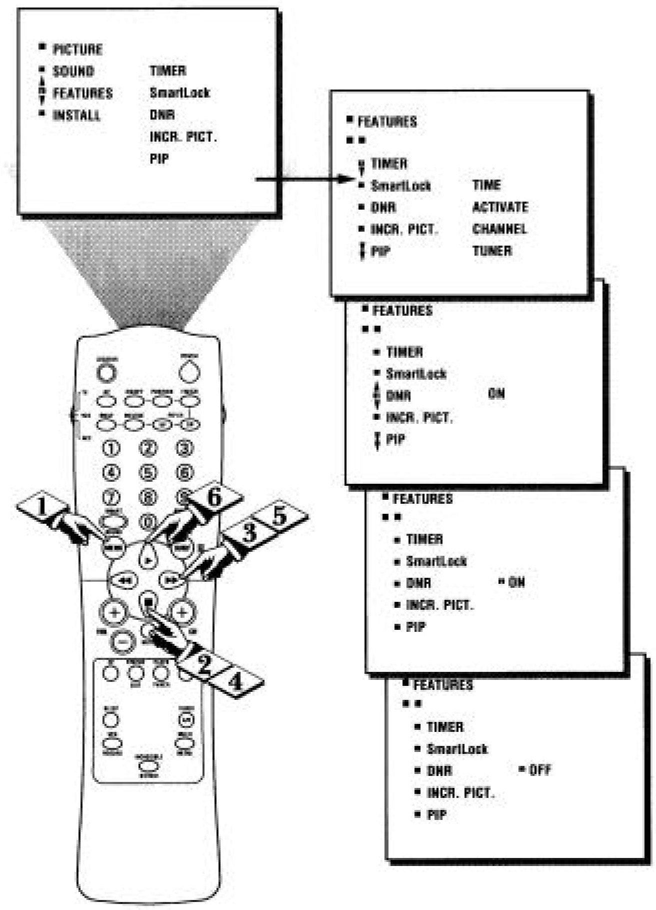
Turning on the Dynamic Noise Reduction (Picture) Control

Due many reason such as poor cable reception, the picture can sometime appear slightly "speckled" (noise in the picture). The DNR (Dynamic Noise Reduction) control can help eliminate this type of interference and improve the quality of the picture.

BEGIN

1. **Press the MENU button** on the remote to show the on-screen menu. **PICTURE** will be highlighted.
2. **Press the CURSOR DOWN ■ button** twice to select the **FEATURES** menu.
3. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left, TIMER will be highlighted.
4. **Press the CURSOR DOWN ■** to highlight the **DNR** control.
5. **Press the CURSOR RIGHT ▶▶ button again** to highlight the DNR option area.
6. **Press the CURSOR UP ▶ or CURSOR DOWN ■ buttons** to turn the DNR feature **ON** or **OFF**.

STOP



Turning on the Incredible Picture Control

The Incredible Picture feature helps to "sharpen" the picture quality. The black portions of the picture become richer in darkness and the whites become brighter.

BEGIN

1. **Press the MENU button** on the remote to show the on-screen menu. **PICTURE** will be highlighted.

2. **Press the CURSOR DOWN ■ button** twice to select the **FEATURES** menu.

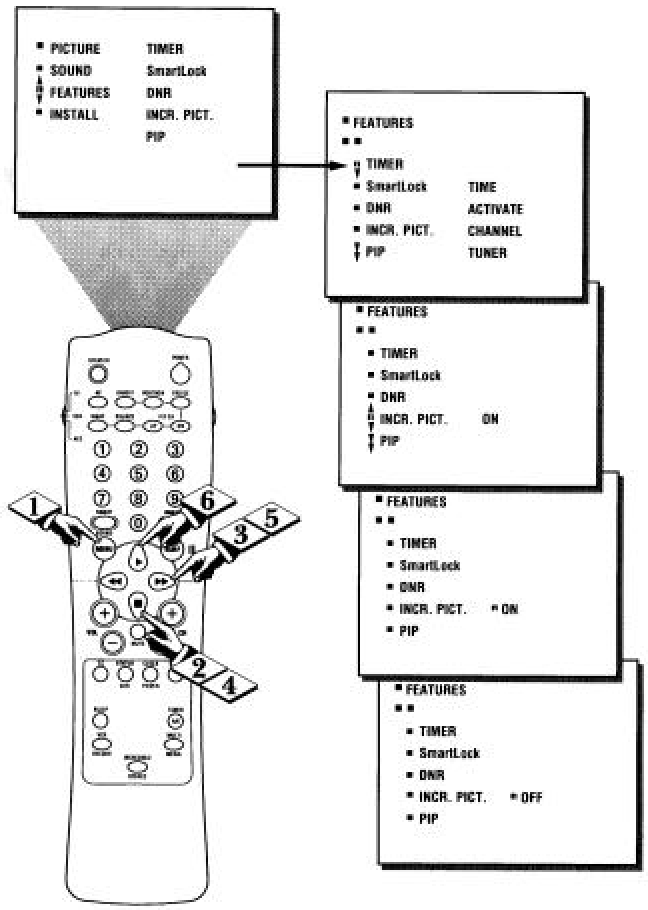
3. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left, TIMER will be highlighted.

4. **Press the CURSOR DOWN ■** to highlight the **INCR. PICT.** control.

5. **Press the CURSOR RIGHT ▶▶ button again** to highlight the INCR. PICT. option area.

6. **Press the CURSOR UP ▶ or CURSOR DOWN ■ buttons** to turn the INCR. PICT. feature **ON** or **OFF**.

STOP



USING THE CLOSED CAPTION CONTROL

Closed Captioning (CC) allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired, this feature uses on-screen "text boxes" to show dialogue and conversations while the TV program is in progress.

BEGIN

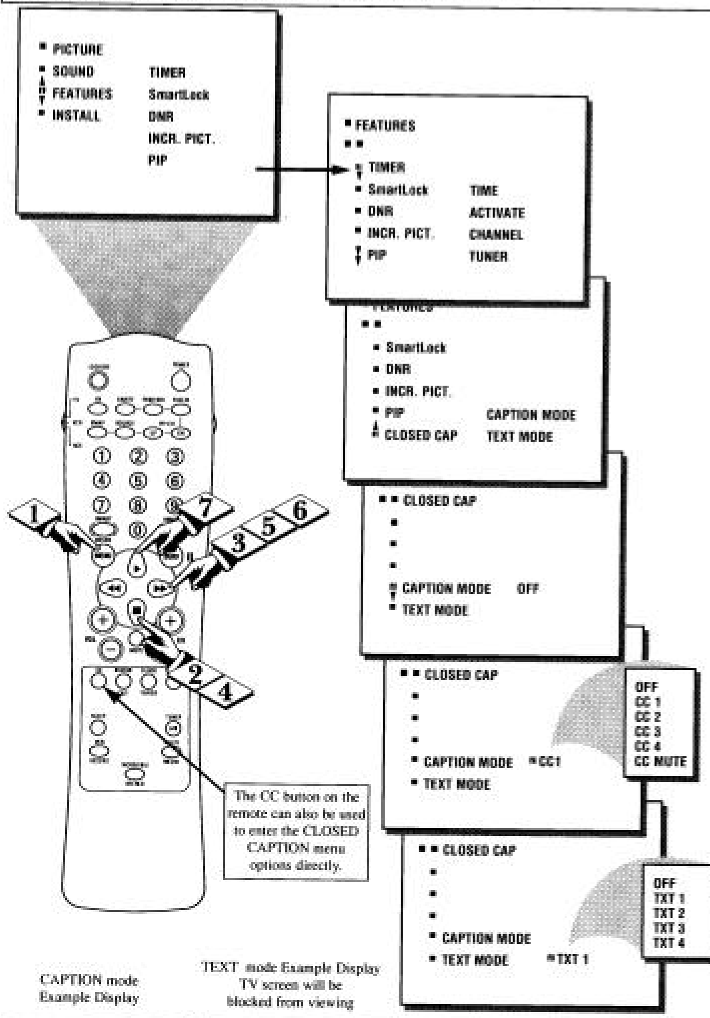
1. **Press the MENU button** on the remote to show the on-screen menu. **PICTURE** will be highlighted.
2. **Press the CURSOR DOWN ■ button** twice to select the **FEATURES** menu.
3. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left, TIMER will be highlighted.
4. **Press the CURSOR DOWN ■** to highlight the **CLOSED CAP** control.
5. **Press the CURSOR RIGHT ▶▶ button again** to highlight and choose either CAPTION MODE or TEXT MODE.
6. **Press the CURSOR RIGHT ▶▶ button** again to highlight the **CAPTION MODE or TEXT MODE** options area.
7. **Press the CURSOR UP ▶ or CURSOR DOWN ■ buttons** to select the CLOSED CAPTION option you want.

CAPTION MODE: CC1, CC2, CC3, CC4, CC MUTE, or OFF - dialogue (and descriptions) for the action on the captioned TV program shows on-screen.

TEXT MODE: TXT1, TXT2, TXT3, TXT4, or OFF - often used for channel guide, schedules, or bulletin board information for CC programs.

STOP

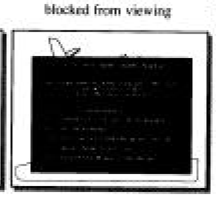
NOTE: Not all TV programs and product commercials are made for broadcast with Closed Caption (CC) information included. Neither are all Closed Caption modes (CAPTION 1-4, or TEXT 1-4) necessarily being used by a broadcast station during the transmission of a closed caption program. Refer to your area's TV program listings for the stations and times of Closed Caption shows.



CAPTION mode Example Display



TEXT mode Example Display TV screen will be blocked from viewing



NOTE: The CC MUTE option can be used to set the TV to turn the Closed Caption mode "ON" whenever the MUTE button on the remote is pressed.

Using the Sleep Timer Control

Have you ever fallen asleep in front of the TV only to have it wake you up at two in the morning with a test pattern screeching in your ears? Well, your TV can save you all that trouble by automatically turning itself off.

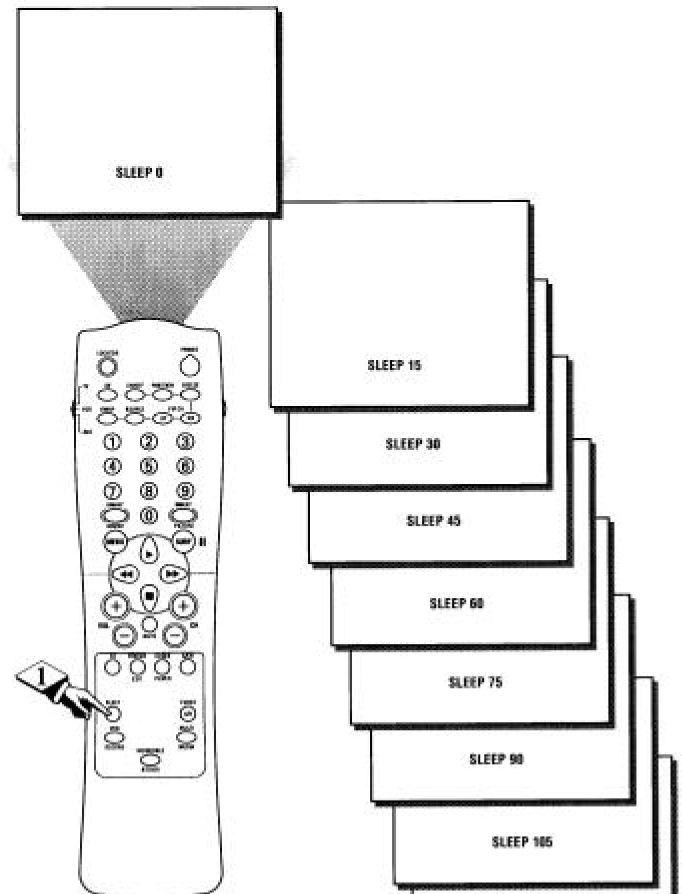
BEGIN

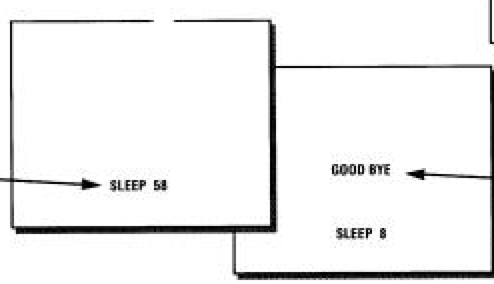
1. **Press the SLEEP button** on the remote control and the SLEEP timer on-screen display will appear in the lower center of the screen.

2. **Press the SLEEP button** repeatedly to pick the amount of time (15 minutes to 2 hours ahead) before the TV will turn itself off.

An on-screen count down will appear during the last minute before the TV shuts itself off.

STOP





During the last minute of a SLEEP timer setting, an on-screen count down will be displayed.

During the last 10 seconds of a SLEEP timer setting, an on-screen display will read GOOD BYE.

Using Treble, Bass, and Balance Sound Controls

Besides the normal volume level control, your TV also has individual sound adjustment controls. The TREBLE (high frequency), BASS (low frequency), and Speaker BALANCE may all be used to adjust the sound of TV programs.

BEGIN

1. **Press the MENU button** on the remote to show the on-screen menu. **PICTURE** will be highlighted.

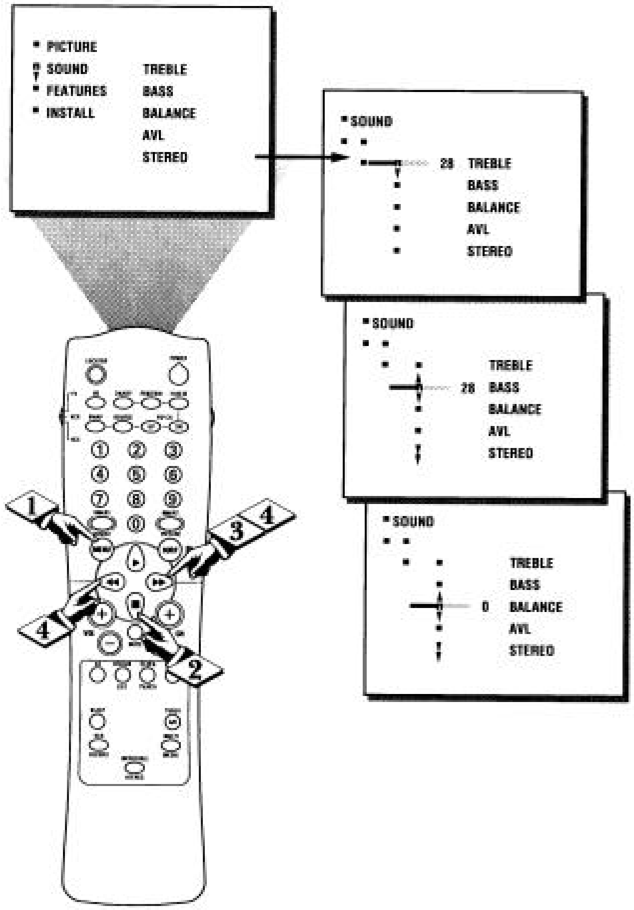
2. **Press the CURSOR DOWN ■ button** to select the **SOUND** menu.

3. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the right to display an adjustment bar in front of the **TREBLE** control.

4. **Use the CURSOR LEFT ◀◀ or RIGHT ▶▶ buttons** to adjust the **TREBLE** *(high frequency)* level of the television's sound.

5. After adjusting the TREBLE control, **press the CURSOR DOWN ■ button** to select another Sound adjustment; **BASS or BALANCE.** Use the **CURSOR LEFT ◀◀** or **CURSOR RIGHT ▶▶ buttons** to adjust the selected control.

STOP



Smart Help

Remember, when the bar scale is centered, Speaker BALANCE is centered between the TV's Left and Right side speakers.

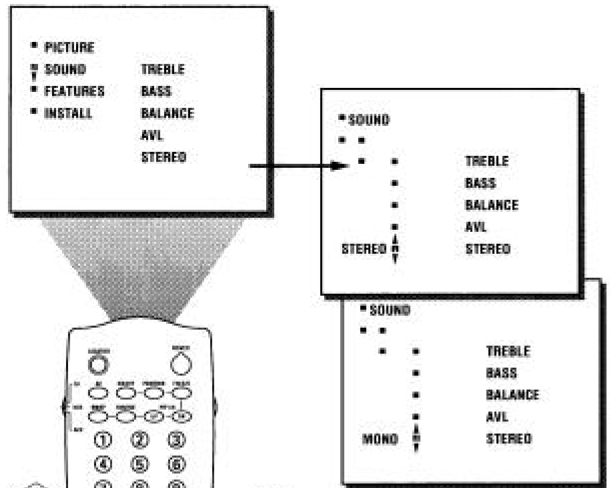
How to Set the TV for Stereo Programs

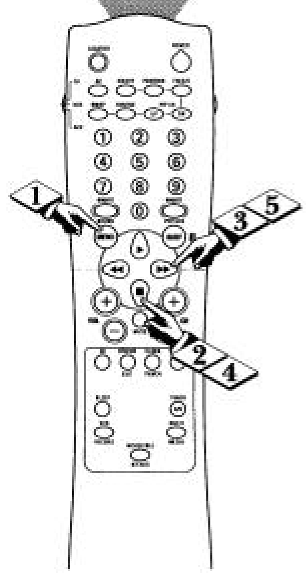
Your TV can receive broadcast stereo TV programs. The TV has both an amplifier and twin speakers through which the stereo sound can be heard.

BEGIN

1. **Press the MENU button** on the remote to show the on-screen menu. **PICTURE** will be highlighted.
2. **Press the CURSOR DOWN ■ button** to select the **SOUND** menu.
3. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the right to display an adjustment bar in front of the **TREBLE** control.
4. **Press the CURSOR DOWN ■ button** to select the **STEREO** control.
5. **Use the CURSOR LEFT ◀◀ or RIGHT ▶▶ buttons** to select **STEREO** or **MONO**. With STEREO selected the television will reproduce any stereo broadcast signal it receives.

STOP





Smart Help

This TV will set the STEREO feature automatically to the correct Stereo/Mono option from the broadcast signal it is receiving.

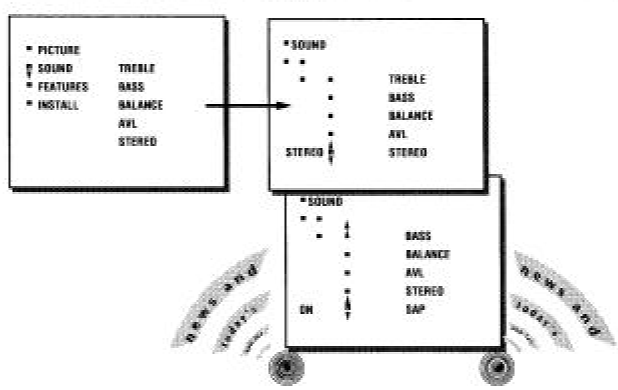
Stereo programs can be set to mono but as soon as the channel is changed, *Auto Stereo Select* will change the STEREO feature back to its original option.

When using the A/V modes, you will have to select the STEREO or MONO option manually.

Second Audio Program (SAP)

SAP is an additional part of the stereo broadcast system. Sent as a third audio channel SAP can be heard apart from the current TV program sound. TV stations are free to use SAP for any number of purposes, but many experts believe it will be used for foreign language translations of TV shows (or for weather and news bulletins.)

If a SAP signal is not present with a selected program, the SAP option cannot be selected. Also, if SAP is selected on a channel (with SAP) and you select another channel, when you return to the original channel SAP will be OFF (and you will have to reselect the SAP feature.)



USING THE INCREDIBLE STEREO FEATURE

The Incredible Stereo feature adds greater depth and dimension to both monaural (MONO) and stereo TV sound. With the control turned ON the TV's speakers can add even wider sound separation to normal broadcasts.

BEGIN

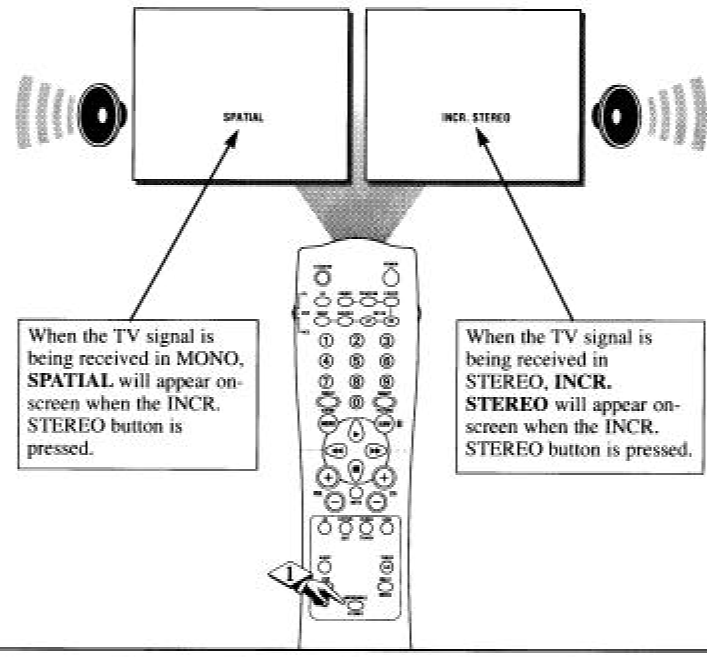
1. **Press the INCREDIBLE STEREO button** on the remote to turn the Incredible Stereo feature ON.

When the TV signal is being received in STEREO, the on-screen display will read **INCR. STEREO.**

When the TV signal is being received in MONO, the on-screen display will read **SPATIAL.**

Both will give increased TV sound performance when watching movies or musical programs.

STOP



USING THE TV VOLUME BAR CONTROL

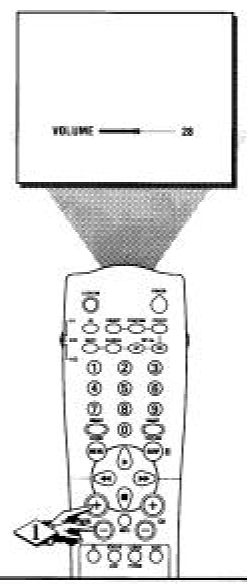
Use the Volume Bar control to see the TV's volume level setting on the TV screen. The Volume Bar will be seen each time the VOLUME buttons (on the TV or remote) are pressed.

BEGIN

1. **Press the VOLUME (+) or (–) buttons** on the remote to show the VOLUME bar display on-screen.

Press the VOLUME (+) or (–) buttons again to adjust the television's sound level.

STOP



SMART HELP

Try it out.
Press the VOL (+) and (–) buttons. The VOLUME BAR should appear near the bottom center of the screen.

USING THE TV SPEAKER CONTROL AND AUDIO OUTPUT JACKS

Would you like to hear TV programs through your audio hi-fi system? The TV's Audio Output jacks and TV Speaker On/Off control work together to offer you this TV sound option.

BEGIN

1. **Connect the R(ight) and L(eft) AUDIO OUT** jacks on the TV to the R and L Audio Input jacks on your amplifier or sound system. Set the audio system's volume to normal listening level.

2. **Turn the TV** and audio system ON. You can now adjust the sound level coming from the audio system with the VOLUME (+) or (–) buttons on the TV or remote.

3. To hear the TV sound from only the audio system speakers.

   Press the MENU button on the remote to show the on-screen menu. **PICTURE** will be highlighted.

4. **Press the CURSOR DOWN ■ button** to select the **SOUND** menu.

5. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the right to display an adjustment bar in front of the **TREBLE** control.

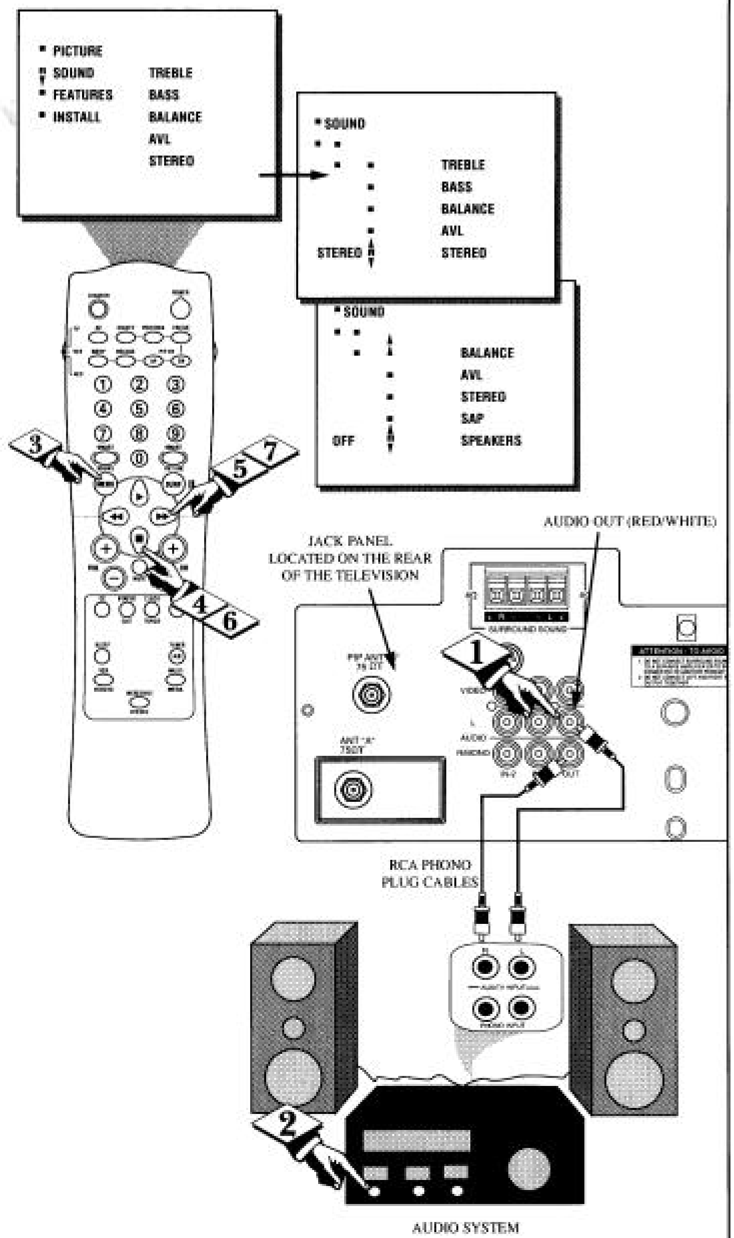
5. **Press the CURSOR DOWN ■ button** to select the **SPEAKER** control.

5. **Use the CURSOR RIGHT ▶▶ or CURSOR LEFT ◀◀ buttons** to select turn the television's speakers **OFF**. You should now only hear TV sound coming from the audio system speakers.

STOP

SMART HELP

Remember, the audio system may have to be in AUX(iliary) mode to play sound from the TV.



USING THE SURROUND SOUND EXTERNAL SPEAKER CONNECTIONS

By adding optional external speakers to the TV's sound system, you can create the feeling of reflected sound that surrounds you at a movie theater or concert hall.

BEGIN

1. **Connect both external speakers** to the speaker wire terminals on the TV.

   Be sure the (+) and (–) speaker wires are connected to the correct R(ight) and L(eft) speaker terminals on the TV.

2. **Place the speakers** so the viewing area is between the TV and the rear surround speakers. (See overhead view drawing.)

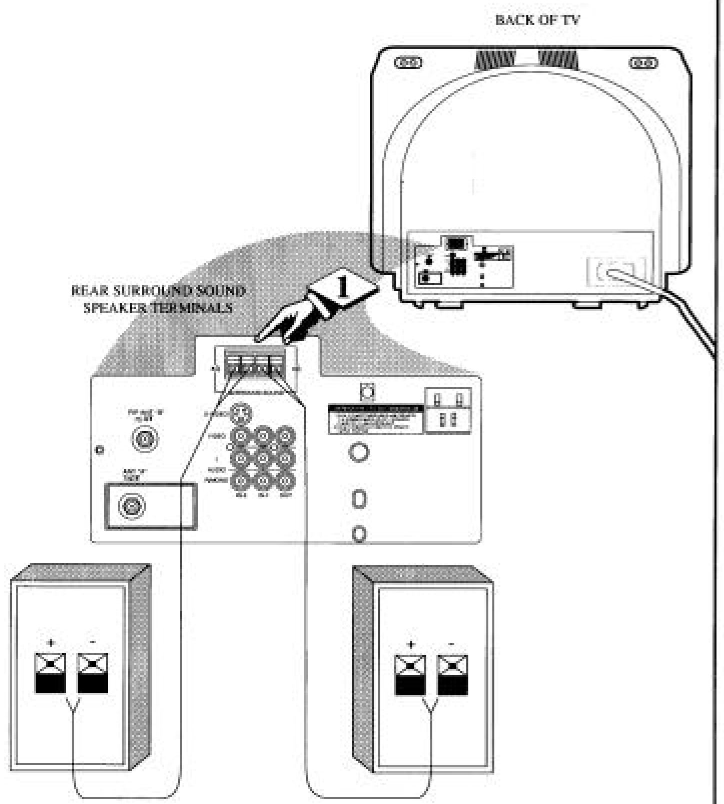
3. **Turn the TV and the STEREO control ON.**

   After setup whenever a stereo signal is received the audio will be heard in Surround Sound.

STOP

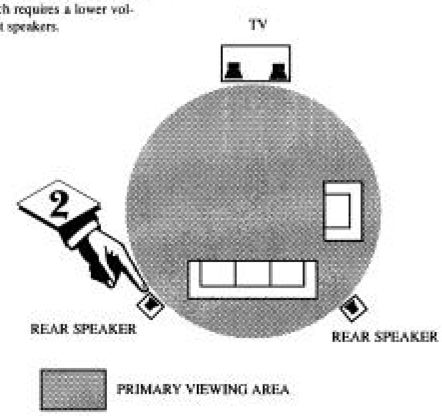
SMART HELP

Remember, Surround Sound will not work with only one speaker connected; or with monaural audio material (unless the Incredible Stereo feature is turned ON).



REAR SURROUND SOUND SPEAKERS

Note: The rear Surround Sound speakers will not be heard at the same volume level as the front TV speakers. It is intended for the rear speakers to give a background noise effect which requires a lower volume level than the TV's front speakers.



How to Use the Audio/Video Input Jacks

Audio/Video Inputs

The TV's Audio/Video Input jacks are for direct picture and sound connections between the TV and a VCR (or similar device) that has Audio/Video Output jacks.

BEGIN

1. **Connect the VIDEO (yellow) CABLE** to the VIDEO IN jack on the back of the TV. Then connect the AUDIO (red and white) CABLES to the AUDIO (left and right) IN jacks on the rear of the TV.

2. **Connect the VIDEO (yellow) CABLE** to the VIDEO OUT jack on the back of the VCR. Then connect the AUDIO (red and white) CABLES to the AUDIO (left and right) OUT jacks on the rear of the VCR.

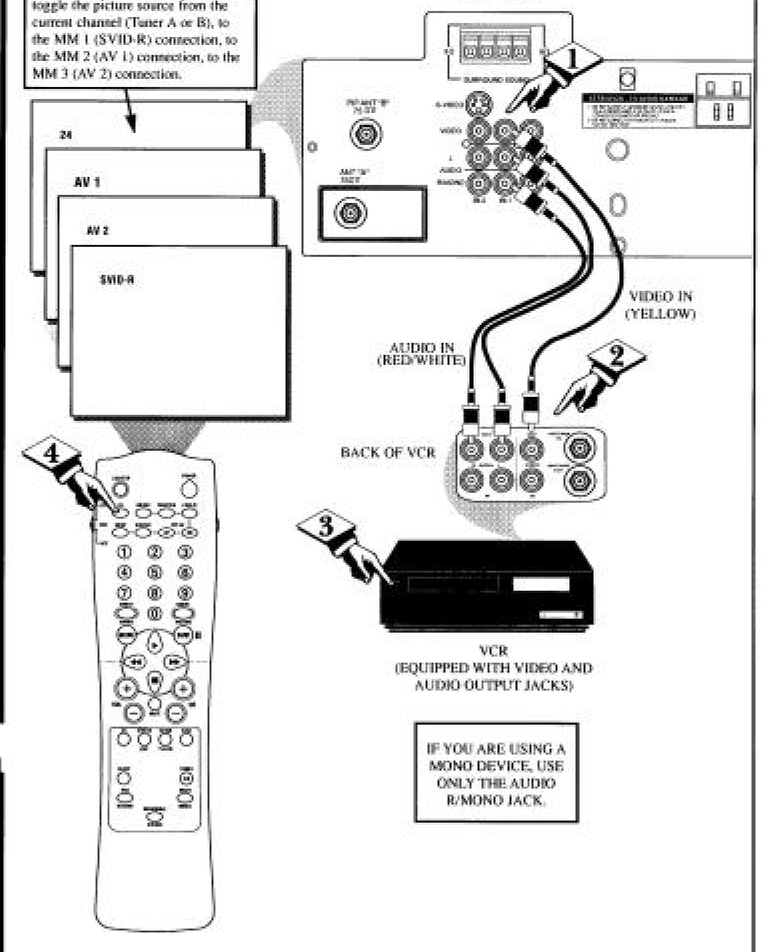
3. **Turn the VCR and the TV ON.**

4. **Use the A/V button** on the remote to select the AV 1 channel.

With the VCR ON and a prerecorded tape inserted, **press the PLAY button** to view the tape on the television.

STOP

NOTE: Repeatedly pressing the AV button on the remote will toggle the picture source from the current channel (Tuner A or B), to the SVID-R connection, to the AV 1 connection, to the AV 2 connection.
This also applies to the Multi Media button on the remote. Repeatedly pressing the Multi Media button will toggle the picture source from the current channel (Tuner A or B), to the MM 1 (SVID-R) connection, to the MM 2 (AV 1) connection, to the MM 3 (AV 2) connection.



IF YOU ARE USING A MONO DEVICE, USE ONLY THE AUDIO R/MONO JACK.

Smart Help

Remember, with the TV/VCR/ACC switch in the VCR position, pressing the (CLOCK) TV/VCR button will allow you to toggle between the VCR mode and the TV mode.

How to Use the Audio/Video Input Jacks

S-Video Input

The S(uper)-Video connection on the rear of the television can give you better picture detail and clarity, for the playback of S-VHS VCR tapes, or Digital Video Discs than the normal antenna picture connections.

Note: The VCR (or Digital Video Disc player) must have a S-VIDEO OUT(put) jack in order for you to complete the connections shown on this page.

BEGIN

1. **Connect the S-VIDEO CABLE** to the S-VIDEO input jack on the rear of the television, then the AUDIO (red and white) to the AUDIO IN (IN 2) jacks on the rear of the TV.
2. **Connect the S-VIDEO CABLE** to the S-VIDEO output jack on the accessory device. Then connect the red and white AUDIO CABLES to the AUDIO (left and right) output jacks on the rear of the accessory device.
3. **Turn the VCR (or Digital Video Disc Player) ON.**
4. **Press the AV button** on the remote to tune to the SVID-R channel. You are now ready to view the tape or disc on the TV.

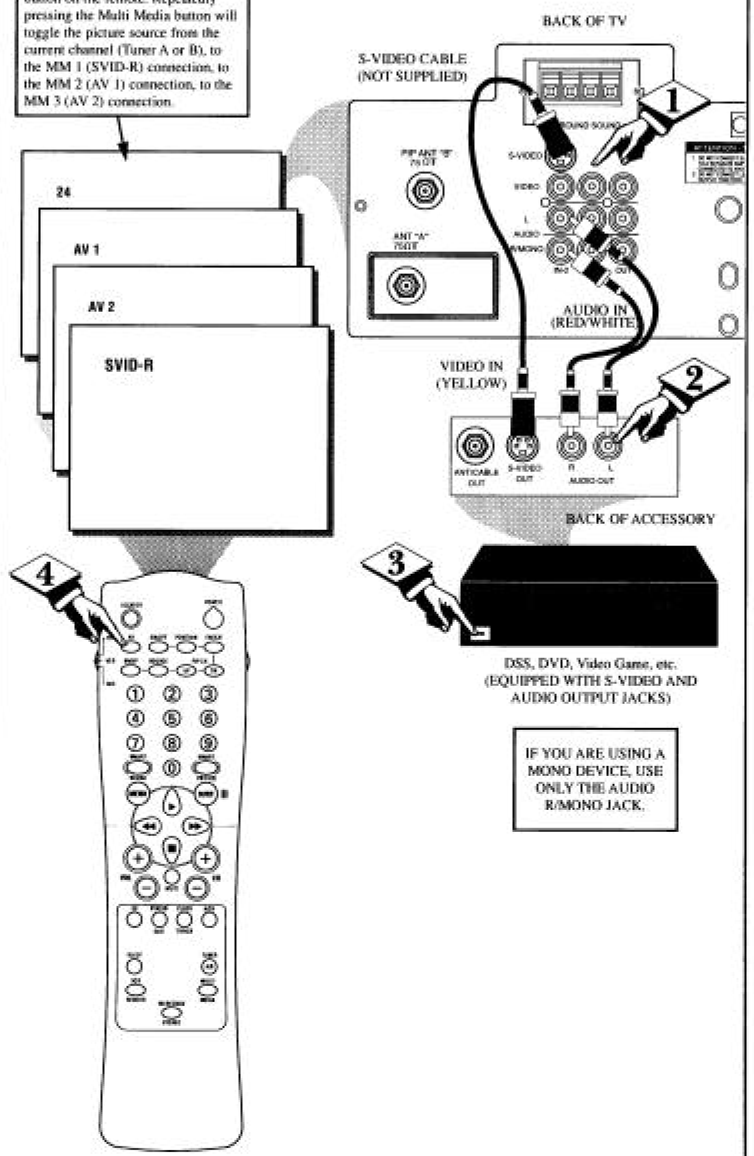
STOP

Smart Help

The S-VIDEO and VIDEO IN-2 Inputs are in parallel. The S-VIDEO input is dominate when in use. If seperate video signals are connected to the S-Video and the VIDEO IN-2 Inputs, the signal from the VIDEO IN-2 input will be unuseable.

If you have added SVID-R to the TV's channels memory, just press the CHANNEL + or – buttons to select the S-VIDEO mode.

NOTE: Repeatedly pressing the AV button on the remote will toggle the picture source from the current channel (Tuner A or B), to the SVID-R connection, to the AV 1 connection, to the AV 2 connection.
This also applies to the Multi Media button on the remote. Repeatedly pressing the Multi Media button will toggle the picture source from the current channel (Tuner A or B), to the MM 1 (SVID-R) connection, to the MM 2 (AV 1) connection, to the MM 3 (AV 2) connection.



Using the Remote Locator Feature

Have you ever played hide and seek with your remote control? Are you tired of tearing the house apart trying to find if someone has stuffed the remote under the couch, put it on the shelves, or hid it in the desk? Well, your TV remote can save you all that looking by automatically signaling its location to you.

Here's how it works:

BEGIN

1. **Press the POWER button** on the set to turn the TV ON.

   Note: Normally you can press any button on the front of the TV to turn the set ON. But for the remote locator to work you need to be sure to use the Power button at the TV.

   A "locating remote" message shows on the TV screen.

2. **Within a few seconds a chirping or beeping** sound will begin to come from the remote control hand unit.

   The remote will continue to signal its location for around 30 seconds. Normal TV program sound will not be heard while the remote locator is working.

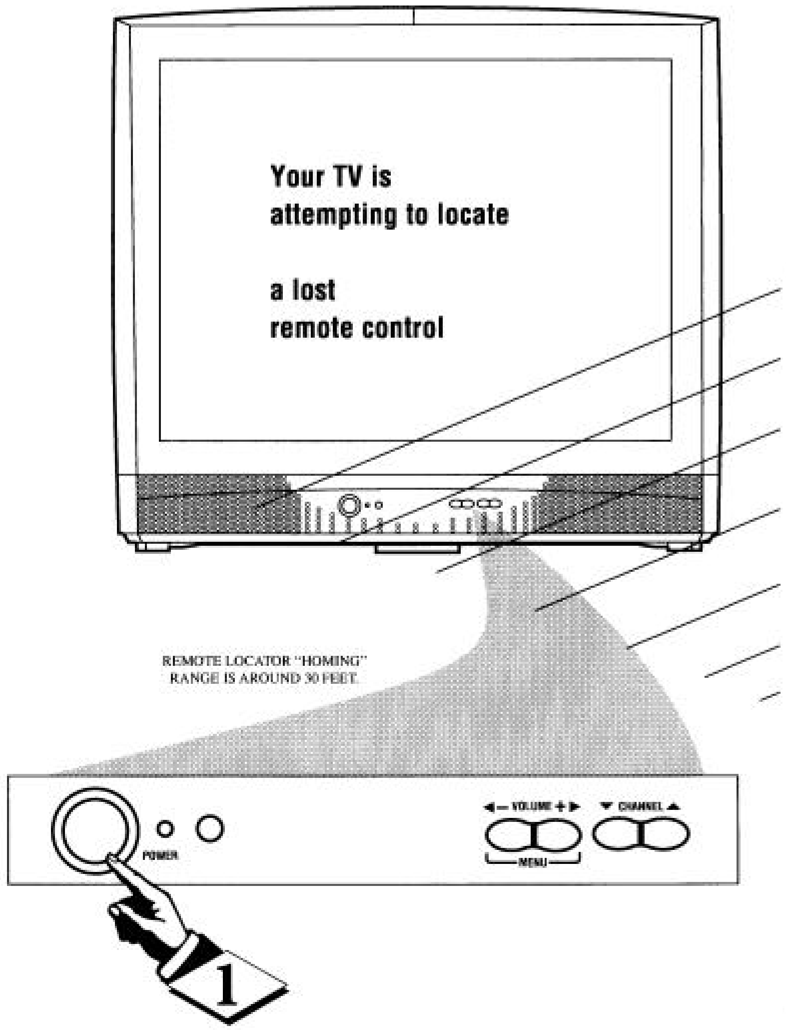
3. **Once you find the remote** just press any button on the remote and the beeping will stop.

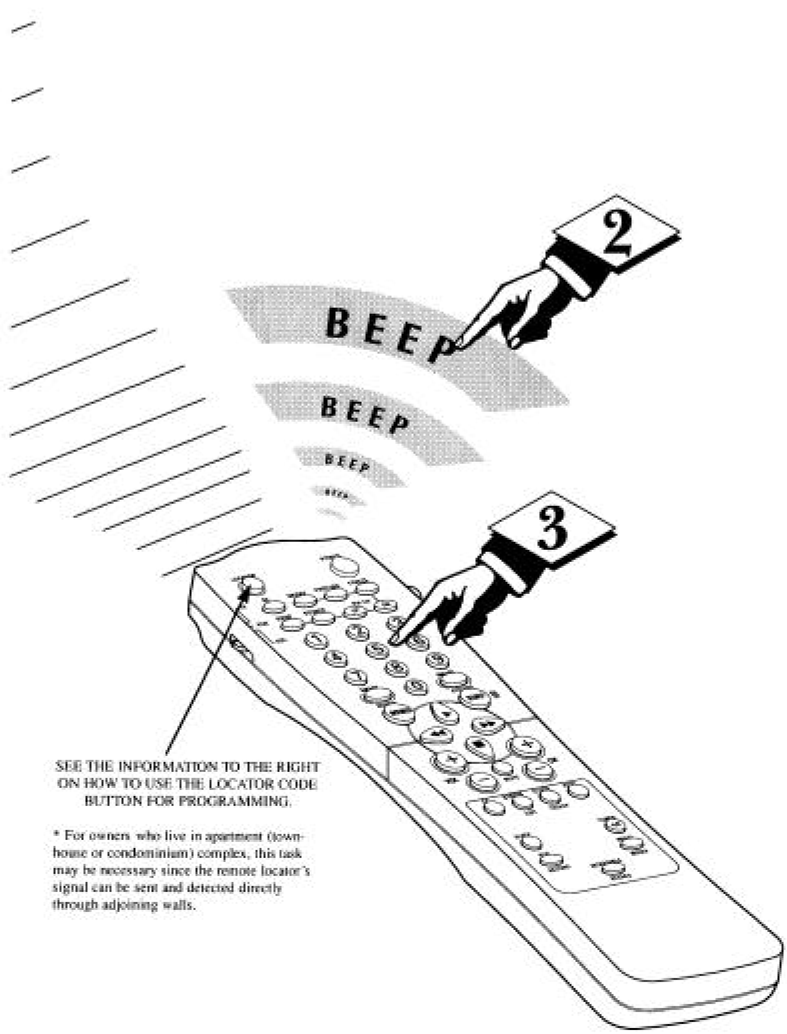
   The remote is now ready for normal TV feature use.

STOP

Smart Help

Remember, the remote locator may not properly receive its "homing" signal from the TV if it has been placed on a metal shelf or counter material.





* For owners who live in apartment (townhouse or condominium) complex, this task may be necessary since the remote locator's signal can be sent and detected directly through adjoining walls.

ADDRESS CODE PROGRAMMING OF THE REMOTE

For most homes this step would not be needed but for your information:

Up to 9 different remote locator address codes can be set on which the TV can send out its "homing" signal.

*This is done in case there is more than one TV (with remote locator) present, and you want only one specific remote to be signaled when the TV is turned ON.**

To set a Locator Address Code:

BEGIN

1. With the TV turned ON, **press the LOCATOR CODE button** on the remote. (Also be sure the TV/VCR/ACC SYSTEM switch is in the TV mode.)

2. **The TV shows** the present Remote Locator Code.

   Remote Locator Code
   is set to 5

   Press any number key
   to change code

3. **Press any number button (0-9)** on the remote to set or change the Locator Code.

   Remote Locator Code
   has been changed

   new code is 2

SMART HELP

Remember, if the batteries are replaced the Locator Code will need to be reentered.

When setting the Locator Code if any button, other than the number buttons are pressed, the remote will return to its normal operation mode.

USING THE SMART PICTURE CONTROL

Whether you're watching a movie or a video game, you TV has automatic video control settings matched for your current program source or content. The Smart Picture feature quickly resets your TV's video controls for a number of different types of programs and viewing conditions you may have in your home. Each Smart Picture setting is preset at the factory to automatically adjust the TV's Brightness, Color, Picture, Sharpness, Tint, and Color Temperature levels.

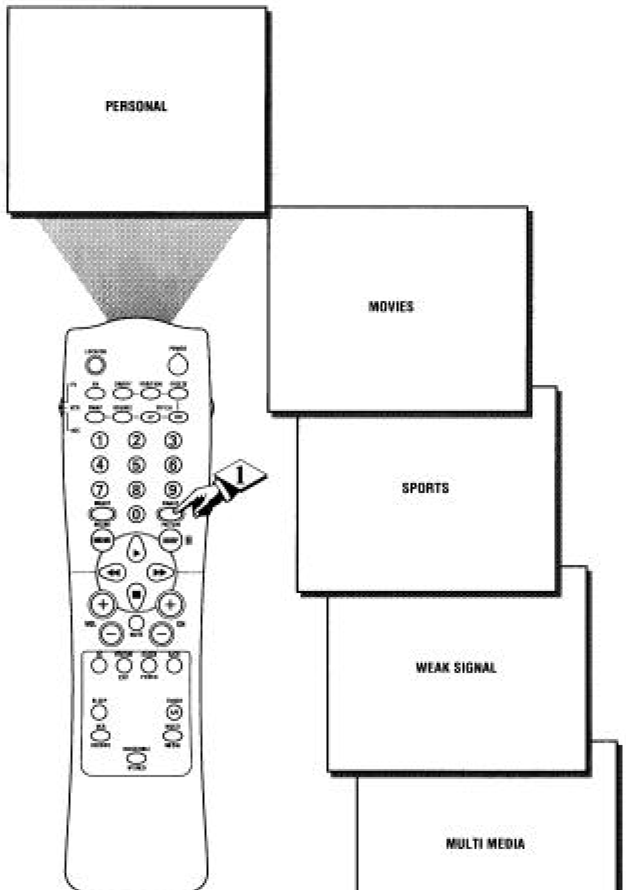
BEGIN

1. **Press the SMART PICTURE button** on the remote control. The current Smart Picture setting will appear in the middle of the screen.

2. **Press the SMART PICTURE button repeatedly** to select either PERSONAL, MOVIES, SPORTS, WEAK SIGNAL, or MULTI MEDIA picture settings.

Note: The PERSONAL settings and the PICTURE options within the on-screen menu are one in the same. This is the only option in Smart Picture that can be changed. To adjust these settings, use the options within the on-screen menu. All other setting are setup at the factory during the time of production and cannot be adjusted.

STOP



Using the Smart Sound Control

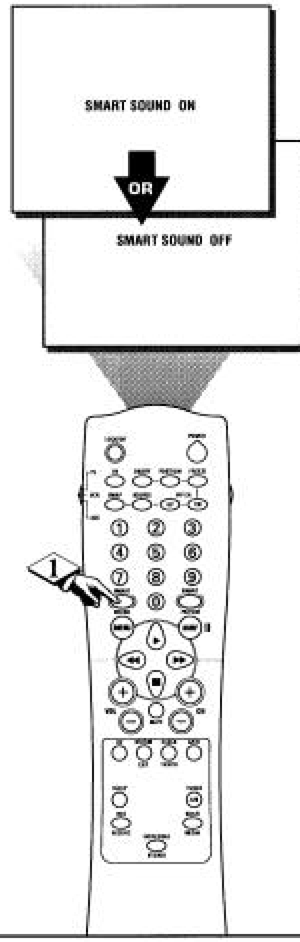
Are you tired of the sound of commercials following you into the next room or all through the house? Smart Sound allows you to preset a desired volume level for the TV sound. This makes for an even, more consistent sound by reducing the peaks and valleys that can occur during program changes or commercial breaks.

BEGIN

1. **Press the SMART SOUND button** on the remote control. The current Smart Sound setting will appear in the middle of the screen.

2. **Press the SMART PICTURE button repeatedly** to turn the feature **ON** or **OFF.**

STOP

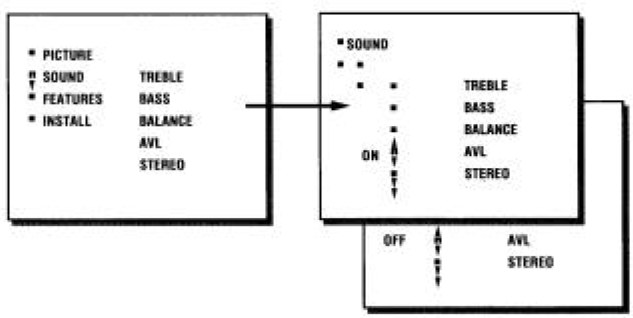


Smart Help

Remember, Smart Sound works only with the programs coming through the ANTENNA/CABLE input on the rear of the TV (RF audio). It will not control the sound levels for the External SVID-R, AV1, AV2 or MM1, MM2, and MM3 connections.

AVL Control

Note: SMART SOUND is the same feature as AVL within the SOUND on-screen menu controls. When **SMART SOUND** is changed, the **AVL** control will also change (and vice versa).



Using the TV's Channel SURF Control

A "list" or series of previously viewed channels can be selected with the SURF button on your remote control. With this feature you can easily switch between different TV programs that currently interest you. The SURF control allows you set up to ten channels in its quick viewing "list".

BEGIN

1. **Press the CHANNEL (+) or (–) buttons** (or the NUMBER buttons) to select a channel to add to the SURF list.

2. **Press the SURF button** on the remote. The on-screen display will read, **"THE SURF LIST IS EMPTY, Press > to add".**

3. **Press the CURSOR RIGHT ▶▶ button** to add the present channel to the SURF list.

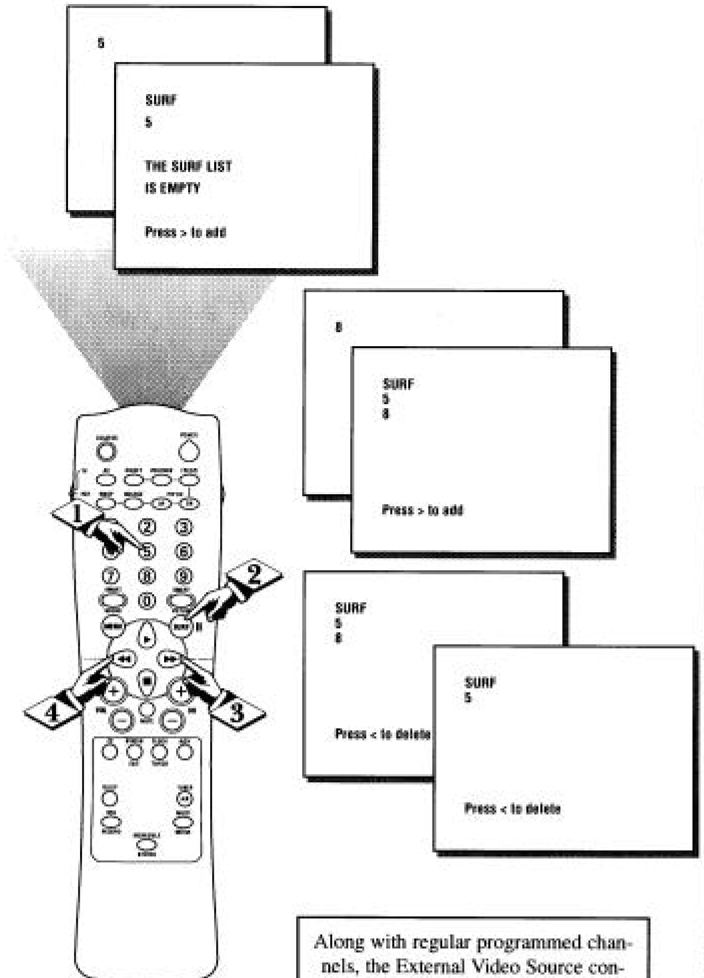
4. **Press the CURSOR LEFT ◀◀ button** to delete the present channel from the SURF list.

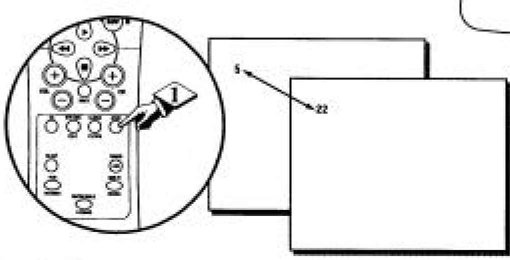
Repeat steps 1 through 3 to add additional channels (up to 10) to the SURF list.

STOP

A/CH Button

Your remote also has an A/CH (Alternate Channel) button. Pressing this button will toggle between the Current and previously viewed channel.





Along with regular programmed channels, the External Video Source connections can be added to the SURF list. This means the AV 1, AV 2, SVID-R, MM 1, MM 2, and MM 3 channels can be added to your SURF list. Just tune to their channel and use the same procedure described on this page.

Setting the Remote Control To Work With Other Devices

Your remote control is set to work your TV and many infrared remote (IR) control VCRs, Cable Boxes, Satellite Systems, DSS, DVD, etc. However, an easy onetime step may be necessary before the remote will work your VCR.

Try this initial check to see if going on to the following section is necessary.

BEGIN

1. **Place the TV/VCR/ACC Mode Switch** in the proper position.
2. **Point the remote control** at the device and press the POWER button.
3. Does the remote turn the device ON?

If YES, stop and try other function buttons on the remote. If they also work the device, then the remote is ready and no further steps are needed.

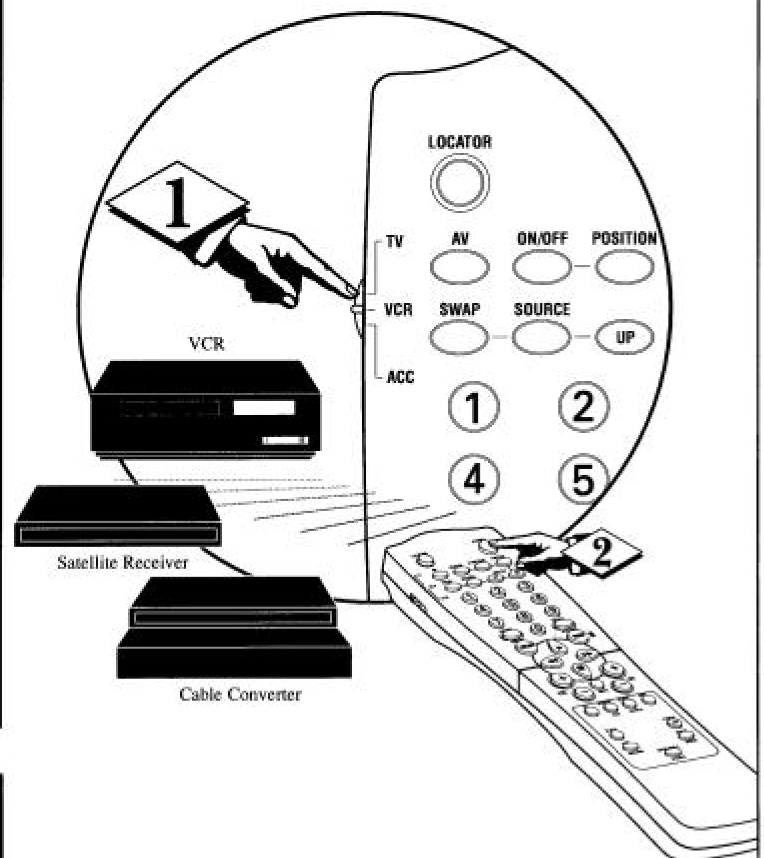
If NO, continue...

1. First look up a **THREE-DIGIT remote control number** for your brand of Device before going through the simple "1, 2, 3" steps (on the following page).

Find your Three-Digit Code on pages 30-31.

Smart Help

Remember, if more than one number is listed, you may have to try more than the first Three-Digit code given in order to locate your Device's remote code.



Setting the Remote Control To Work With Other Devices

Direct Access Method

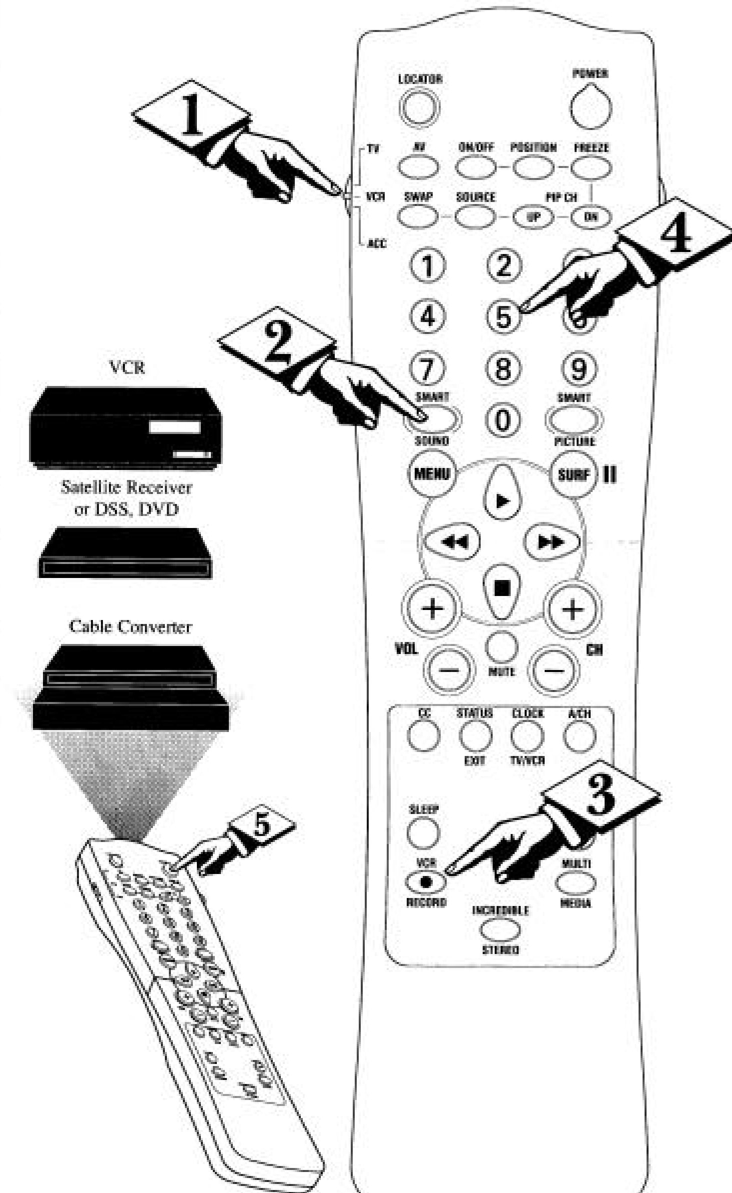
Now that you have looked up the three-digit Remote Code Number for your brand of device, you are ready to follow the four simple steps below.

Please read through steps 1-4 before beginning.

BEGIN

1. **Place the TV/VCR/ACC Mode Switch** in the proper position.
2. **Press the VCR RECORD button** on the remote control and release.
3. **Press the SMART SOUND button** on the remote within 30 seconds, then release.
4. **Enter the THREE-DIGIT REMOTE CODE NUMBER** for your desired device. The remote is now ready to send commands to the unit.
5. **Point the remote** at the Device. Press the POWER button on the remote to turn the unit ON.

STOP



Smart Help

Remember, if this doesn't work the first time, repeat steps using the same remote code number.

After a second try and the remote does not operate your device, see if there is another three-digit code number (pages 34-35) listed for your device and repeat the steps above using the new number.

If after repeated attempts the code number method does not work you device, try the **SEARCH METHOD** on page 33.

Search Method

Your TV remote can be set to work various external devices such as VCRs, Cable Boxes, Satellite Receivers, DSS, DVD, etc. by what is called the search method of remote control programming.

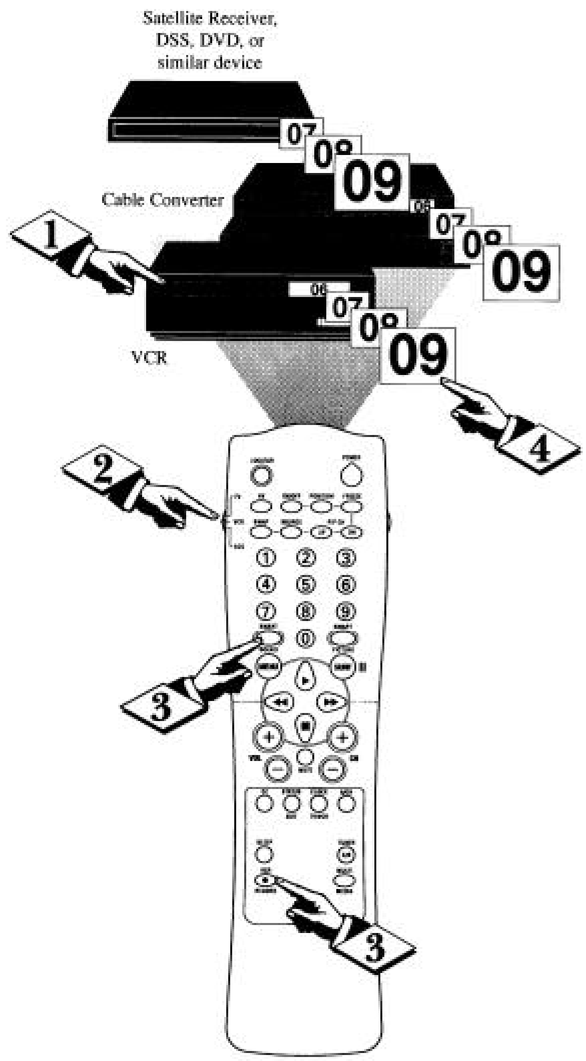
If the "Remote Code" number method shown on the previous page did not set your remote to work your external device, then follow the easy steps listed below.

Please read steps 1-4 before beginning.

BEGIN

1. **Press the POWER button** on the device your are attempting to program to turn ON.
2. **Place the TV/VCR/ACC Mode Switch** in the proper position.
3. **Press the VCR RECORD and the SMART SOUND buttons simultaneously** and hold them down.
4. The device will begin to change channels after the remote identifies the correct code. When the channels start to change release the VCR RECORD and SMART SOUND buttons. The remote should be ready to operate the device.

STOP



SMART HELP

This method can take up to two minutes to preform.

Don't let the device scan up more than five channels. If you do the remote may pass up the right code and another two minute search cycle will have to be repeated.

If no channel change happens within two minutes, repeat steps 1-4. Should a channel change still not occur, the remote will not work the desired device.

Remote Control Direct Entry Codes

VCR	REMOTE CODE NO.
Admiral	048
Advantz	358
Adventure	000
Aiko	278
Aiwa	000, 037, 307, 348, 352
Akai	041, 049, 053, 061, 106, 315
Alba	352
Amercian High	035
Amstrad	325, 332
Asha	240
Audiovox	037
Baird	107
Beaumark	240
Bell & Howell	104
Blaupunkt	003, 006, 154
Brandt	187, 320, 321
Broksonic	121, 184, 211, 295, 361
Bush	352
CCE	072, 278
Calix	037
Canon	035
Capehart	020
Carver	081, 146
Citizen	037, 278
Colt	072
Combitach	352
Craig	037, 047, 072, 240, 271
Curtis Mathes	035, 041, 060
Cybermax	051, 240
Daewoo	020, 045, 276
Daytron	020
Denon	042
Dynatech	000
Electrophonic	037
Emerex	032
Emerson	000, 002, 036, 037, 043, 061, 068, 088, 121, 164, 208, 209, 211, 212, 278, 295, 361, 479
Ferguson	107, 320, 321
Fisher	047, 054, 066, 104
Fuji	033, 035
Funai	000
GE	035, 060, 065, 202
Garrard	000
Go Video	232, 279, 432
Gold Star	037, 038
Gradiente	000, 406
Grundig	003, 007, 195, 347
HI-Q	047
Harly Davidson	000
Harman/Kardon	038, 075
Harwood	068, 072
Headquarter	046
Hinari	004, 352
Hitachi	000, 004, 041, 042, 065, 105, 168, 235
Ingersol	004
JVC	008, 041, 067, 208, 384, 486
Jensen	041
KEC	037, 278
KLH	072
Kenwood	038, 041, 067, 384
Kodak	035, 037
LXI	037
Lloyd's	000, 206

VCR	REMOTE CODE NO.
Loewe	004
Logik	004, 072
MEI	035
MGA	043, 061
MGN Technology	240
MTC	000, 240
Magnavox	000, 035, 081, 146, 181
Marta	037
Matsui	004, 348, 352
Matsushita	035, 162, 454
Memmorex	307
Memorex	000, 035, 037, 039, 046, 047, 048, 104, 240, 266, 307
Metz	003, 347
Minolta	042, 105
Mitsubishi	043, 061, 067, 075, 173, 443
Motorola	035, 048
Multitech	000, 072
NAD	058
NEC	036, 040, 041, 067, 104
Nikko	037
Nikon	034, 253
Noblex	240
Nordmende	297, 320, 321
Okano	346
Olympus	035, 226
Optimus	037, 048, 058, 104, 162, 432, 454
Optonica	062
Orion	004, 295, 348, 352, 479
Panasonic	035, 077, 162, 225, 226, 378, 454
Penney	035, 037, 038, 040, 042, 065, 105
Pentax	042, 065, 105
Philco	035
Philips	035, 062, 081, 110, 403
Pilot	037
Pioneer	058, 067
Portland	020
Profax	322
Profitronic	240
Protec	072
Pulsar	039, 051
Quarter	046
Quartz	046
Quasar	035, 077, 162, 454
RCA	042, 060, 065, 077, 105, 106, 149, 202
Radio Shack	000, 037
Radix	037
Randex	037
Realistic	000, 035, 037, 045, 047, 048, 062, 066, 104
Ricoh	034, 253
Runco	039
SEG	322
SEI	004
STS	042
Saba	297, 320, 321
Saisho	004
Salora	075
Samsung	045, 051, 053, 240
Sanky	039, 048
Sansui	000, 041, 067, 271

VCR	REMOTE CODE NO.
Sanyo	046, 047, 104, 240, 268
Saville	352
Scott	043, 045, 121, 164, 211, 212
Sears	000, 035, 037, 042, 046, 047, 054, 066, 104, 105
Sharp	046, 062
Shintom	072
Shogun	051, 240
Shoral	004
Siemens	003
Singer	072
Sinudyne	004
Sony	000, 011, 022, 032, 033, 034, 035, 253, 275
Sunkel	348
Sunpak	253
Sylvania	000, 035, 043, 081, 103, 110
Symphonic	000
TMK	036, 208, 240
Tatung	041
Teac	000, 041
Technics	035, 162
Teknika	000, 035, 037
Telefunken	187, 320, 321
Tansal	322
Thomas	000
Thomson	320
Toshiba	043, 045, 066, 212, 366
Totavision	037, 240
Towada	322
Unitech	240
Universum	325
Vactor	045
Vactor Research	038, 040
Video Concepts	040, 045, 061
Videosonic	240
Wards	000, 035, 042, 047, 048, 060, 062, 072, 081, 149, 161, 212, 240
XR-1000	000, 035, 072
Yamaha	038
Zenith	000, 033, 034, 039

CABLE CONVERTOR	REMOTE CODE NO.
ABC	001, 003, 007, 008, 011, 013, 014, 017
Aliegio	153
Andover	544
Antronix	022
Archer	022, 153
Balcor	056
British Telecom	105
Cable Star	056
Cablatenna	022
Cabletime	161, 271, 377, 448
Cableview	022
Century	153
Citizen	153
Clyde	086
Colour Voice	025, 031
Comtec	274
Comtronics	040
Contec	019
Cryptovision	600
Deceat	423

Remote Control Direct Entry Codes

CABLE CONVERTOR	REMOTE CODE NO.
Eastern	.002, 274
Everquest	.015, 040
Filmnet	.443
Focus	.400
France Telecom	.451
GC Electronics	.056
GEC	.086
Ganard	.153
Gemini	.015, 070, 242
General Instrument	.011, 276, 476
Gold Star	.040
Grundig	.529
Hamlin	.009, 020, 034, 259
Hitachi	.011
Hytex	.007
Jasco	.153
Jerrold	.003, 011, 012, 014, .015, 024, 276, 476
M.N.E. T.	.443
MNet	.443
Macon	.033
Magnavox	.027, 032, 334
Memorex	.000
Movie Time	.063
NSC	.063, 070
Oak	.007, 019
Optimus	.021
Panasonic	.000, 021, 107
Paragon	.000
Philips	.025, 027, 031, 153, 242, 290, 334
Pioneer	.533, 753
Popular Mechanics	.400
Pulsar	.000
RCA	.021
Radio Shack	.015
Recoton	.400
Regal	.020, 259
Regency	.002
Rembrandt	.011, 070
Runco	.000
SL Marx	.040
Salora	.382
Samsung	.040
Satbox	.375
Scientific Atlanta	.008, 017, 477
Signal	.015, 040
Signature	.011
Sprucer	.021
Star Sight	.542
Starcom	.003, 015
Stargate	.015, 040
Starquest	.015
Sylvania	.001
TV85	.063
Tandy	.258
Tele+1	.443
Teleservice	.281
Televiеw	.040
Texscan	.001
Timeless	.274
Tocom	.012, 013, 059
Toshiba	.000
Tudl	.286
Tusa	.015
Unike	.022, 153
United Artists	.007
United Cable	.003
Universal	.022, 056, 153, 191
Videoway	.250
Viewstar	.027, 063, 258
Visi Cable+	.461
Westminster	.105
Wolsey Gaine	.544
Zenith	.000, 054, 525
Zentek	.400

DSS	REMOTE CODE NO.
Alpha Star	.772
Echostar	.775
HTS	.775
Hitachi	.819
Hughes Network System	.749
Jerrold	.627
Magnavox	.722, 724
Memorex	.724
Panasonic	.701
Philips	.722, 724
Primestar	.627
RCA	.566
Sony	.639
Toshiba	.790
Uniden	.724

Satellite	REMOTE CODE NO.
AST	.351
Akai	.515
Alba	.352, 515, 613
Aldea	.288
Amstrad	.080, 252, 345, 461, 509, 689
Ankaro	.220, 288, 369
Anitron	.183
Armstrong	.243
Astra	.108
Avalon	.396
Axis	.369
BT	.515, 668
Beko	.189
Best	.369
Boca	.243, 513
Bush	.067
Cambridge	.344, 515
Channel Master	.362
Commlink	.288
Connexions	.396
Conrad	.607
Crown	.243
DDC	.362
DNT	.396
Echostar	.396
Farguson	.067, 183, 189, 336
Fidelity	.252
Finiux	.108, 397
Fuba	.369, 396
G-Bat	.183
Galaxis	.286
Gooding	.571
Grundig	.173, 189, 571, 750
Hinari	.183
Hirschmann	.397, 573
Houston	.668
Huth	.220, 243, 268
ITT	.108
Intervision	.592
JVC	.515, 571
Kathrein	.092, 504, 622, 658
La Sat	.513, 607
Lennox	.592
Lupus	.369
Luxor	.108, 573
Manhatten	.592
Maspro	.092, 336, 750
Matsui	.571
Mediamarkt	.248
Minerva	.571
Mintec	.576
Morgan's	.243, 513
Newhaus	.220
Nikko	.360, 713
Nokia	.108, 397, 573
Nordmende	.362
Orbitech	.501
Pace	.067, 183, 336, 455, 791
Paliadium	.571
Palsat	.501
Philips	.200, 292, 571, 750
Phonotrend	.288, 592
Plasmatic	.442
Proset	.288
Quadral	.362, 628
RFT	.220, 288
Radix	.396
SAT	.351, 461
SEG	.369
Saba	.336
Salora	.108
Satec	.183
Schwaiger	.183, 504
Seemann	.396, 578, 626
Skymaster	.288, 626
Sony	.704
Star Trak	.421
Strong	.421
Sunstar	.513
Tantec	.336
Techni Sat	.262, 501
Teleka	.243, 613
Tonna	.668
Triad	.351
Universum	.571
Vtech	.351
Wisi	.351, 396

DVD	REMOTE CODE NO.
Kenwood	.534
Mitsubishi	.521
Panasonic	.490
Philips	.539
Pioneer	.550
RCA	.522
Sony	.552
Toshiba	.503

Using the Remote's VCR Buttons

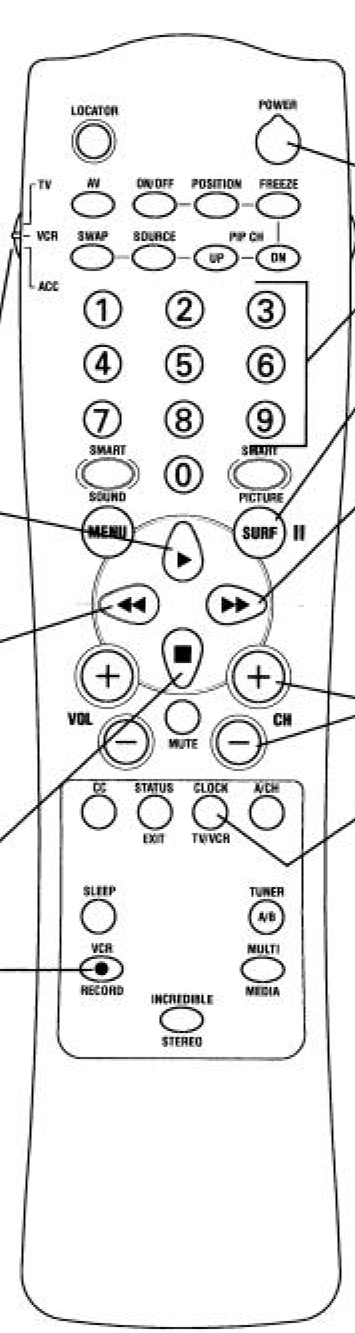
When using the TV remote with a VCR, first make certain it is set to control your VCR (by the REMOTE CODE or SEARCH method).

BEGIN

1. **Set the TV/VCR/ACC mode switch to VCR** on the remote.
2. **Point the top of the remote** toward the front of the VCR (remote sensor window) when pressing the buttons.

STOP

NOTE: The functions of the buttons described on this page are for VCR use only. (Please make sure the TV/VCR/ACC switch is in the VCR position.)



VCR SYSTEM SWITCH
Set in the VCR position to send remote commands to the VCR.

PLAY BUTTON
Press to begin playback of a video tape. (Or, press PLAY and VCR/RECORD to start a recording of a tape.

REWIND BUTTON
Press to rewind tapes. For some VCR's the STOP button may have to be pressed first, then REWIND. In playback mode hold down the button to view picture moving rapidly in reverse.

STOP BUTTON
Press to stop the motion of a tape in playback, rewind, fast forward, etc.

VCR RECORD BUTTON
Hold the VCR/RECORD button and the PLAY button down to begin a VCR recording.

POWER BUTTON
Press to turn the VCR ON and OFF.

NUMBER BUTTON
Press buttons for direct VCR channel selections.

PAUSE BUTTON
Press to temporarily stop the tape during a playback or recording. Press again to release Pause.

FAST FORWARD BUTTON
Press to rapidly advance the tape. For some VCR's you may need to press the STOP button first, then the FAST FORWARD button. In playback mode hold the button down to view the picture moving rapidly in the forward direction.

CHANNEL + & – BUTTONS
Press to scan up or down through the VCR channel numbers.

(CLOCK)TV/VCR BUTTON
Press to the VCR position (VCR indicator on the front of the unit will light) to view the playback of a tape, watch a program while recording it, or to watch a TV broadcast using the VCR CH (+) (–) or Number buttons. Press again to place in the TV position (VCR indicator light will go off) to view one program while recording another program.

Smart Help

Remember, the VCR buttons on the remote will not operate your VCR if those features are not found on your VCR remote control.

Note: All VCR functions (particularly Search, Rewind, Fast Forward, etc.) will operate the same as with the original VCR remote control provided with the VCR.

USING THE PIP (PICTURE-IN-PICTURE) FEATURE

Hooking up PIP

Picture-In-Picture (PIP) is the showing of two pictures on the TV screen at the same time. (One main screen picture and one small inset picture - or PIP). For your ease and convenience this TV has two separate inputs (ANTenna A and ANTenna B) for your home's Antenna and/or Cable TV system signal.

The ANT A input is primarily for the TV' main screen picture. The ANT B input is provided as a second, dedicated source option for the TV's PIP "window" and its feature operations. The signal connected to the ANT B input can be either a Split Signal Input (as described in the section on this page), or another type of external signal source (such as a satellite dish system, additional home antenna, video accessory, etc.).

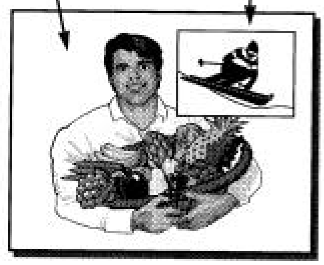
See the following steps on how channels connected to the ANT(enna) B Input can be shown and used within the PIP window:

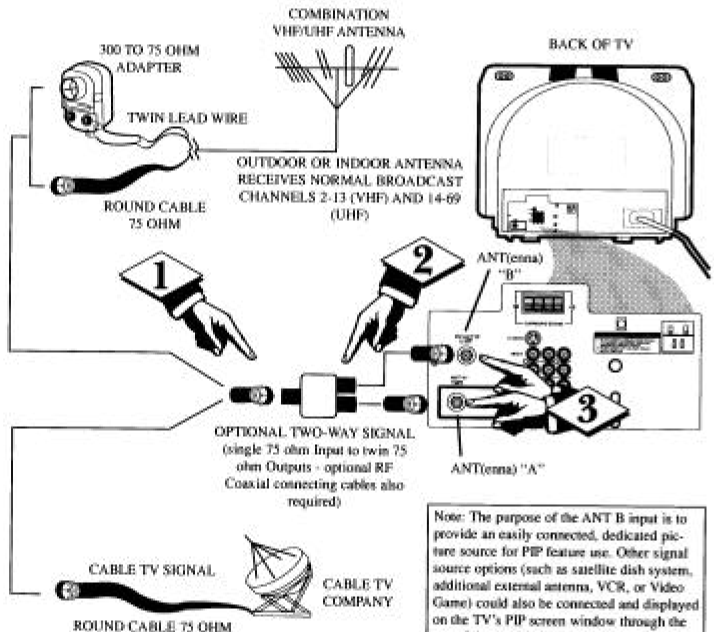
BEGIN

1. **Connect your Antenna or Cable TV** signal to the single 75 ohm INPUT plug on a two-way Signal Splitter (not supplied).

   Connect two lengths of RF Coaxial Cable (F-type connectors on both ends) to the two OUTPUT plugs on the two-way Signal Splitter.

2. **Connect the twin OUTPUT plugs** on the Signal Splitter to the ANT A and ANT B Inputs on the rear of the TV.





Note: The purpose of the ANT B input is to provide an easily connected, dedicated picture source for PIP feature use. Other signal source options (such as satellite dish system, additional external antenna, VCR, or Video Game) could also be connected and displayed on the TV's PIP screen window through the use of the ANT B input.

SMART HELP

For other possible PIP connections see pages 41-42 for the "More PIP Connections" section.

If you need any accessories or parts to complete the described PIP connections, contact your dealer, or our Parts Information Center at:

1-800-851-8885

USING THE PIP (PICTURE-IN-PICTURE) FEATURE

CHOOSING THE PIP SOURCE

The picture for the PIP window can come through either the ANT/CABLE or any the the external Audio/Video connections at the rear of the TV. PIP Source simply tells the TV which one of these sources it is to show in the PIP window.

BEGIN

1. **Turn the TV and VCR** (or other device hooked to the external A/V connections) **ON.**

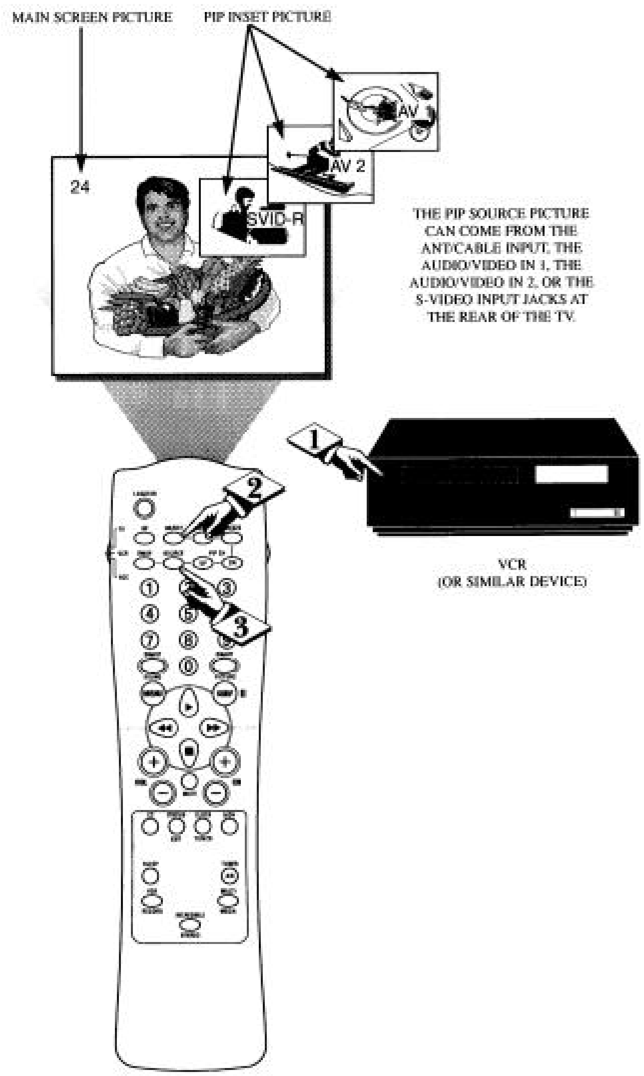
2. **Press the PIP ON/OFF button** on the remote control. The PIP window should appear in the upper right hand portion of the screen.

2. **Press the PIP SOURCE button** on the remote to toggle between the different external connections.

The PIP SOURCE may come from the following:

AV 1, AV 2, SVID-R: for picture signal coming from the external Audio/Video jacks on the TV. (Must have an external device hooked up at these locations.)

ANTENNA/CABLE: for a picture signal coming from the ANT/CABLE Input on the back of the TV.



Using the PIP (Picture-In-Picture) Feature

Remote Control Buttons

By using the PIP buttons on the remote control the PIP picture can be moved and swapped with the main screen. The PIP inset picture can also be frozen within the PIP window.

BEGIN

1. **Press the PIP ON/OFF button** to show the PIP picture. PIP appears in the upper right of the screen.

   Press the PIP ON/OFF button again and the PIP picture is reduced in size.

   Pressing the ON/OFF button a third time will remove the PIP picture from the screen.

2. **Press the PIP POSITION button** on the remote to move the PIP picture to any of the four corners.

3. **Press the PIP FREEZE button** on the remote to stop the action within the PIP window. **Press the PIP FREEZE button** again to resume the normal viewing action.

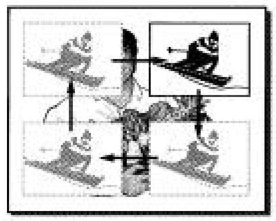
4. **Press the PIP CH(annel) UP/DN buttons** on the remote to choose different channel or a different PIP source.

5. **Press the PIP SWAP button** to swap the main screen picture with the PIP inset picture. Pressing the PIP swap button again will return the main picture to the screen.

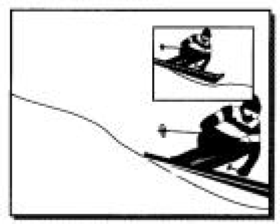
STOP



1. PIP ON/OFF



2. PIP POSITION



3. PIP FREEZE



4. PIP CHANNEL UP/DN



5. PIP SWAP

Adjusting the PIP Color and Tint

The Picture-In-Picture (PIP) Color and Tint controls are used to make fine tune adjustments to the color settings for PIP (when it is shown on the TV screen).

BEGIN

1. **Press the MENU button** on the remote to show the on-screen menu. **PICTURE** will be highlighted.

2. **Press the CURSOR DOWN ■ button** twice to select the **FEATURES** menu.

3. **Press the CURSOR RIGHT ▶▶ button** and the menu will shift to the left to display the **TIMER** controls.

4. **Press the CURSOR DOWN ■ button** to select the **PIP** menu.

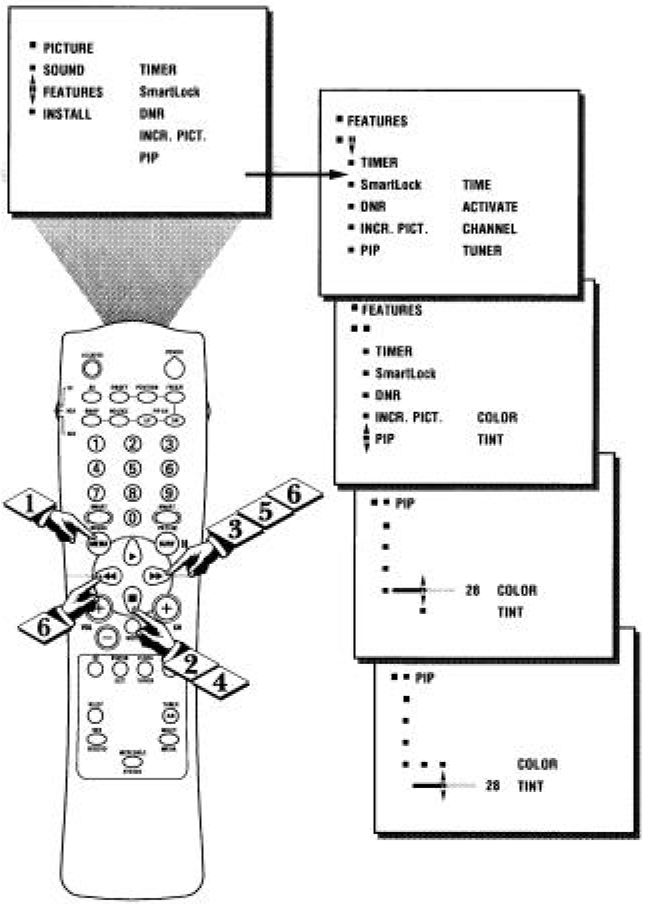
5. **Press the CURSOR RIGHT ▶▶ button again** to shift the display to the COLOR and TINT adjustment bars.

6. **Press the CURSOR RIGHT ▶▶ or the CURSOR LEFT ◀◀ buttons** to adjust the COLOR and TINT bars to the desired levels.

STOP

Smart Help

Remember, although there are separate COLOR and TINT controls for PIP, the adjustment levels for these controls depend on the TV's main picture. For example: If the main picture screen is showing a black and white picture, PIP would also be seen in black and white (even though the PIP picture source is in color).



PIP hookup with a Cable Box and VCR.

BEGIN

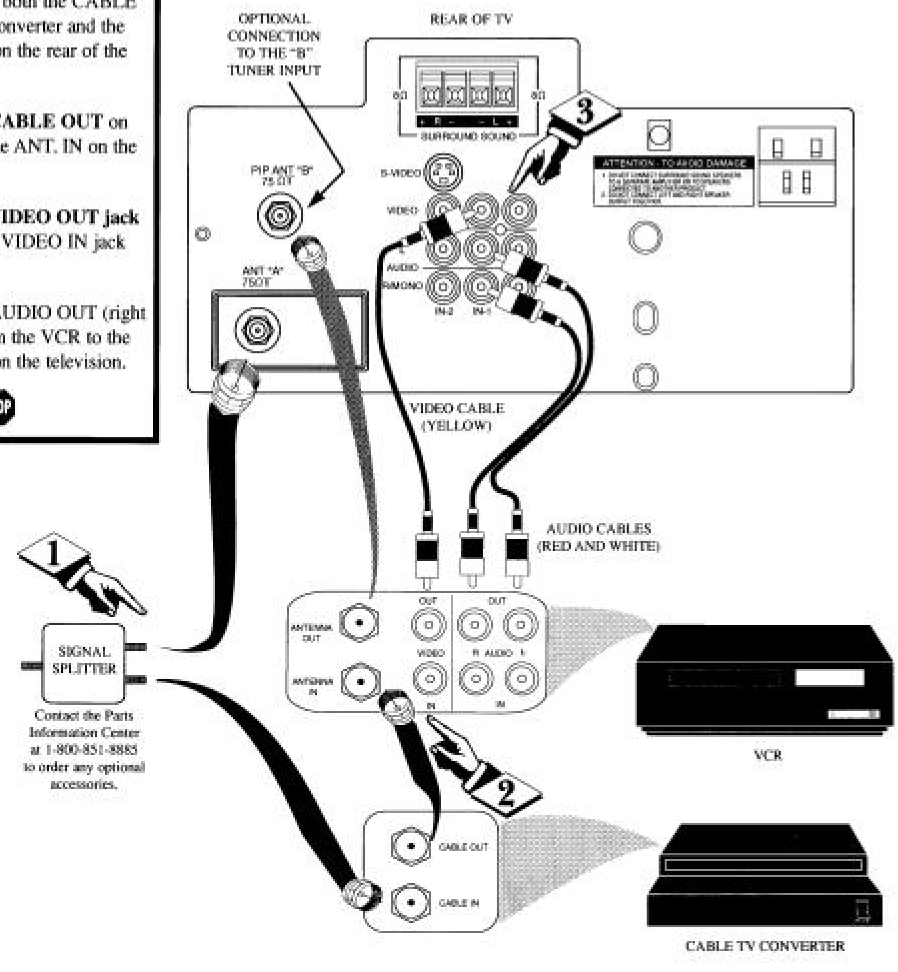
1. **First use an optional signal splitter and** connect the original cable TV signal to both the CABLE IN on the Cable Converter and the ANTENNA plug on the rear of the television.

2. **Connect the CABLE OUT** on the Converter to the ANT. IN on the VCR.

3. **Connect the VIDEO OUT jack** on the VCR to the VIDEO IN jack on the TV.

Also connect the AUDIO OUT (right and left) jacks from the VCR to the AUDIO IN jacks on the television.

STOP



Contact the Parts Information Center at 1-800-851-8885 to order any optional accessories.

MORE PIP (PICTURE-IN-PICTURE) CONNECTIONS

PIP hookup with a VCR and a Digital Video Disc Player (or similar device).

BEGIN

1. **First connect the original cable TV signal** or Antenna signal to the ANT IN jack on the back of the VCR.

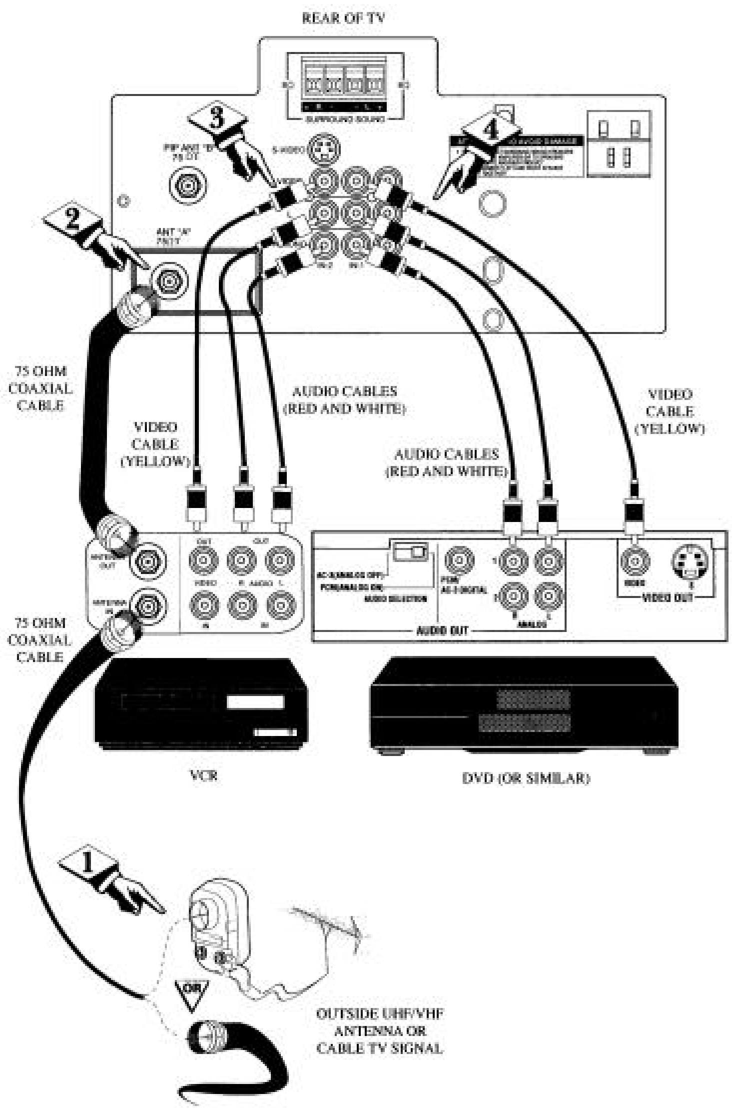
2. **Connect the ANT OUT jack** on the rear of the VCR to the ANT "A" input on the rear of the TV.

3. **Connect the yellow Video Cable** from the VIDEO OUT jack on the VCR to the VIDEO IN jack on the TV (labeled VIDEO IN-2). Then, connect the red and white Audio Cables from the AUDIO OUT jacks on the VCR to the AUDIO IN jacks on the rear of the TV (labeled AUDIO L & R/MONO IN-2).

4. **Connect the yellow Video Cable** from the VIDEO OUT jack on the Digital Video Disc Player to the VIDEO IN jack on the TV (labeled VIDEO IN-1). Then, connect the red and white Audio Cables from the AUDIO OUT jacks on the Digital Video Disc Player to the AUDIO IN jacks on the rear of the TV (labeled AUDIO L & R/MONO IN-2).

Note: When selecting the PIP SOURCE, the Digital Video Disc Player will appear on the AV 1 channel, and the VCR will appear on the AV 2 channel.

STOP



TIPS IF SOMETHING ISN'T WORKING

Please make these simple checks before calling for service. These tips can save you time and money since charges for TV installation and adjustment of customer controls are not covered under your warranty.

CAUTION: A video source (such as a video game, Compact Disc Interactive - CDI, or TV information channel) which shows a constant non-moving pattern on the TV screen, can cause picture tube damage. When your TV is continuously used with such a source the pattern of the non-moving portion of the game (CDI, etc.) could leave an image permanently on the picture tube. When not in use, turn the video source OFF. Regularly alternate the use of such video sources with normal TV viewing.

No Power

- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert plug into outlet and push POWER button again.
- Check that outlet is not on a wall switch. Be sure fuse is not blown on AC Power strip.
- Check to be sure the system mode switch (TV/VCR/ACC) is in the correct position when using the remote control to power the set ON.

No Picture

- Check antenna connections. Are they properly secured to the TV's ANT/CABLE plug ?
- Check the TUNER control for CABLE or ANTENNA setting.
- Press the AV button on the remote to make sure the correct signal source is selected. (AV 1, AV 2, SVID-R or MM 1, MM 2, MM 3)

No Sound

- Check the VOLUME buttons.
- Check the MUTE button on the remote control.
- Check the SPEAKER on-screen control. OFF position will eliminate sound at the set.
- If attempting auxiliary equipment hook-ups, check audio jack connections.
- (If Applicable) Check Audio Receiver for correct operating mode.

Remote Does Not Work

- Check TV/VCR/ACC "System" switch on the remote. Move the switch to the TV position to operate the television.
- Check batteries. Replace with AA Heavy Duty (Zinc Chloride) or Alkaline batteries if necessary.
- Clean the remote and the remote sensor window on the TV.
- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert plug into outlet and push POWER button again.
- Check to be sure TV outlet is not on a wall switch.

TV Displays Wrong Channel or No Channels Above 13

- Repeat channel selection.
- Add desired channel numbers (CHANNEL control) into TV memory.
- Check to be sure the TUNER control is set to the CABLE option.

TV Displays Black Box

- Check CLOSED CAPTION in menu and turn TEXT Mode OFF.

Cleaning and Care

- To avoid possible shock hazard be sure the TV is unplugged from the electrical outlet before cleaning.
- When cleaning the TV screen take care not to scratch or damage the screen surface (avoid wearing jewelry or using anything abrasive). Wipe the front screen with a clean cloth dampened with water. Use even, easy, vertical strokes when cleaning.
- Gently wipe the cabinet surfaces with a clean cloth or sponge dampened in a solution of cool clear water. Use a clean dry cloth to dry the wiped surfaces.
- Never use thinners, insecticide sprays, or other chemicals on or near the cabinet, as they might cause permanent marring of the cabinet finish.

Alternate Channel * Then using the A/CH button on the remote control, toggles between the last two channels viewed.

Auto Programming * When activated, this feature automatically scans for all available channels-from regular antenna or cable signals and stores only active, broadcast stations into the TV's memory.

Channel Edit * Add or delete channels from the sequential tuning cycle to develop a customized list of channels you want to watch. Editing makes it easy to limit the number of channels when scanning the Channel up and down buttons or expand the number of channels available to suit your preference.

Coaxial Cable * **A** single solid antenna wire normally matched with a metal plug (F-type) end connector that screws (or pushes) directly onto a 75 Ohm input found on the Television or VCR.

Closed Caption * Broadcast standard which allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired this feature uses on-screen "text boxes" to show dialogue and conversations while the TV program is in progress.

Audio/Video Inputs * Located on the rear of the TV these connectors (RCA phono type plug) are used for the input of audio and video signals. Designed for use with VCRs (or other accessories) in order to receive higher picture resolution and offer sound connection options.

Identify* Method by which a remote control searches and finds an operating code for another product (such as a VCR or Cable Converter). Once the code has been "identified" then the TV remote can operate and send commands to the other product.

On Screen Displays (OSD) * Refers to the wording or messages generated by the television (or VCR) to help the user with specific menu feature controls (color adjustment, programming, etc.).

Menu * An on-screen listing of feature controls shown on the Television screen that are made available for user adjustments.

Multichannel Television Sound (MTS) * The broadcast standard that allows for stereo sound to be transmitted with the TV picture.

Programming * The procedure of adding or deleting channel numbers into the Television's memory circuits. In this way the Television "remembers" only the locally available or desired channel numbers and skips over any unwanted channel numbers.

Remote Sensor Window * A window or opening found on the Television control panel through which infrared remote control command signals are received.

Second Audio Program (SAP) * Another or additional audio channel provided for in the Multichannel Television Sound (MTS) broadcast standard. The most frequently proposed use for SAP is the simultaneous bilingual broadcast of TV program material.

Status/Exit * Allows the user to quickly confirm what channel number is currently being viewed. Status/Exit can also be used to clear the Television of on screen displays or information (rather than waiting for the displays to "time out" or automatically disappear from the screen).

Twin Lead Wire * The more commonly used name for the two strand 300 Ohm antenna wire used with many indoor and outdoor antenna systems. In many cases this type of antenna wire requires an additional adapter (or balun) in order to connect to the 75 Ohm Input terminals designed into the more recent Televisions and VCRs.

Incredible Stereo * Pseudo-acoustic management of the audio signal produces a dramatic expansion of the wall-of-sound engulfing the listener and heightening overall viewing pleasure.

Smart Lock * Prevents young children from accessing particular broadcast channels (or using audio/video inputs) by electronically locking them out. Undesired channels are blocked out by entering a unique four-number code, which you choose when programming the feature. Blocked-out channels are just as quickly restored with the same process.

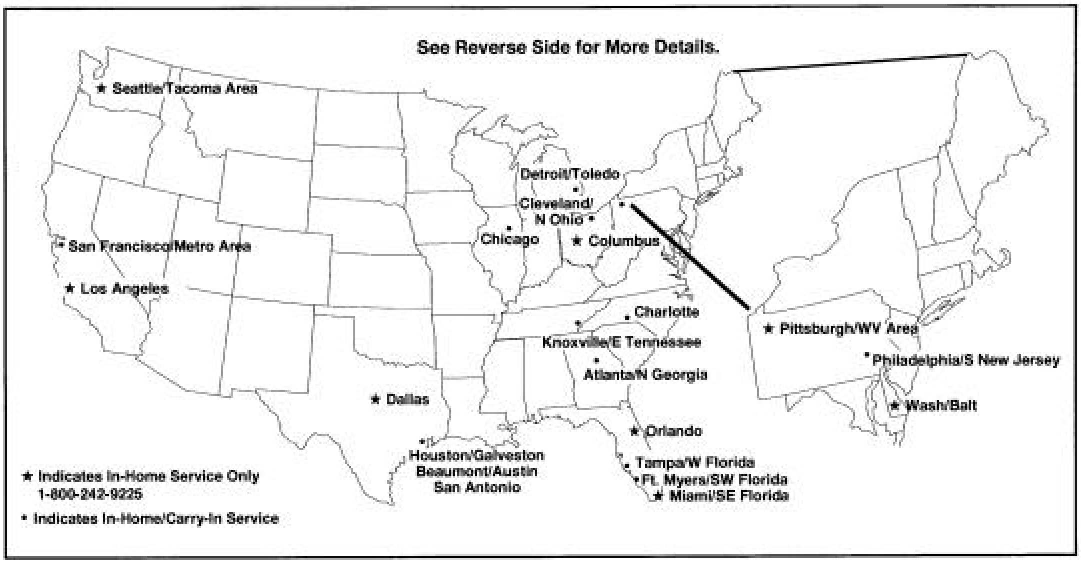
Smart Clock * An accurate digital clock that's always right. By monitoring the vertical blanking interval of PBS broadcasts, TVs equipped with Smart Clock can automatically set the right time of day and maintain it through brown-outs, power failures, and even daylight savings time adjustments.

Two-Tuner PIP * This TV has two separate tuners (and two separate tuner inputs) which allow you to watch one show with one tuner, while scanning other channels with the second tuner in the PIP window.

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* Information contained in Quick-Use (Q/U) Guide-page listed.

Philips Consumer Electronics Company
Factory Service Center Locations



NOTE: If you reside in one of our Philips Factory Service Branch areas (see directory on back), you can contact the nearest Service Branch to obtain efficient and expedient repair for your product. If your product is In-Warranty, you should have proof-of-purchase to ensure No Charge Service. For Out-of-Warranty service, call the location nearest you.

NOTA: Si vous résidez dans une des régions desservies par une succursale de service après vente du fabricant Philips (voir liste ci-dessous), vous pourrez contacter la branche de service après vente la plus près de chez vous pour obtenir un service après vente rapide et efficace. Si le produit est sous garantie, il suffira de présenter une preuve d'achat pour bénéficier d'un service sans frais. Pour les produits non couverts par la garantie, contactez le centre le plus près de chez vous.

NOTA: Si Ud. reside en una de nuestras zonas para sucursales Philips de servicio al de fábrica (ver directorio más abajo), Ud. puede comunicarse con la sucursal de servicio más cercana para obtener una reparación oportuna y eficaz de su producto. Si su producto está todavia bajo garantía, Ud. debe presentar comprobante de compra para no ocasionar ningunos cargos por servicio. Para servicio después del vencimiento de la garantía, llame al lugar más cercano de los abajo indicados.

In Canada

How you can obtain efficient and expedient carry-in, mail-in, or in-home service for your product
Please contact Philips at 1-800-661-6162 (French speaking)
1-800-363-7278 (English speaking)

Au Canada

Comment obtenir le service après-vente pour les produits apportés ou envoyés par la poste à notre centre de service ou le service à domicile
Veuillez contacter philips á: 1-800-661-6162 (Francophone)
1-800-363-7278

En el Canadá

Cómo recibir servicio efficiente para su producto, en persona, por correo o a domicillo
Favor de comunicarse con Philips al: 1-800-661-6162 (francófono)
1-800-363-7278 (anglófono)

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QUALITY SERVICE IS AS CLOSE AS YOUR TELEPHONE! SIMPLY LOOK OVER THE LIST BELOW FOR THE NUMBER OF A FACTORY SERVICE CENTER NEAR YOU. YOUR PRODUCT WILL RECEIVE EFFICIENT AND EXPEDIENT CARRY-IN, MAIL-IN, OR IN-HOME SERVICE, AND YOU WILL RECEIVE PEACE OF MIND, KNOWING YOUR PRODUCT IS BEING GIVEN THE EXPERT ATTENTION OF PHILIPS' FACTORY SERVICE. AND, IF THE PHONE NUMBER LISTED FOR YOUR AREA IS LONG DISTANCE, CALL 1-800-242-9225 FOR FACTORY SERVICE.

COMMENT OBTENIR NOTRE SERVICE APRÈS VENTE RAPIDE ET EFFICACE SOIT PAR COURRIER, À DOMICILE, OU EN SE PRÉSENTANT À UN CENTRE DE SERVICE PHILIPS. PLUS DE 600 CENTRES DE RÉCEPTION DE PRODUITS À RÉPARER À TRAVERS LE PAYS: CONTACTER LE CENTRE DE SERVICE AUX CONSOMMATEURS LE PLUS PROCHE POUR SAVOIR L'EMPLACEMENT DE CES DÉPÔTS DANS UN RAYON DE 50 À 75 MILES (80 KM À 120 KM) DU CENTRE DE SERVICE LOCAL.

CÓMO OBTENER UN SERVICIO OPORTUNO Y EFICIENTE POR CORREO, EN CASA O EN PERSONA PARA SU PRODUCTO A TRAVÉS DE UN CENTRO PHILIPS DE SERVICIO. MAS DE 600 SITIOS POR TODO EL PAIS PARA LA RECEPCION DE PRODUCTOS NECESITADOS DE REPARACIONES: COMUNICARSE CON EL CENTRO DE SERVICIO DE FABRICA MAS CERCANO PARA ESTOS LUGARES DENTRO DE UN RADIO DE 80 A 120 KM (50 A 75 MILLAS) DEL CENTRO DE SERVICIO LOCAL.

GEORGIA
Philips Factory Service of Georgia
200 N. Cobb Pkwy., Suite 120
Marietta, GA 30062
(770) 795-0085

FT. MYERS, FLORIDA
Philips Factory Service Satellite - Ft. Myers
11601 Cleveland Ave., Suite 15
Ft. Myers, FL 33907
(941) 278-4242

FLORIDA
Philips Factory Service of Florida
1911 US Highway 301 North
Tampa, FL 33619
(813) 621-8181

WESTERN U.S.A.
Philips Factory Service Western Region
681 East Brokaw Rd.
San Jose, CA 95112
(408) 436-8566

NORTH CAROLINA
Philips Factory Service of N. Carolina
520 G Clanton Rd.
Charlotte, NC 28217
(704) 529-6330

TEXAS
Philips Factory Service of Texas
1110 N. Post Oak Rd., Suite 100
Houston, TX 77055
(713) 682-3990

CENTRAL U.S.A.
Philips Factory Service Central US
950 Keynote Circle
Brooklyn Heights, OH 44131
(216) 741-3334

MICHIGAN
Philips Factory Service of Michigan
25173 Dequindre
Madison Heights, MI 48071
(248) 544-2110

ILLINOIS
Philips Factory Service of Illinois
1360 W. Hamilton Pkwy.
Itasca, IL 60143
(630) 775-0990

TENNESSEE
Philips Factory Service of East Tennessee
6700 D Papermill Rd.
Knoxville, TN 37919
(423) 584-6614

MID-ATLANTIC
Philips Factory Service Mid-Atlantic
352 Dunks Ferry Rd.
Bensalem, PA 19020
(215) 638-7500

LIMITED WARRANTY

COLOR TELEVISION

90 Days Free Labor

One Year Free Replacement of Parts (Two Years Free Replacement on Color Picture Tube)

This product can be repaired in-home.

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. *For 90 days thereafter*, all parts will be repaired or replaced free, and labor is free. From 90 days to one year from the day of purchase, all parts will be repaired or replaced free, but you pay for all labor charges. From one to two years from the day of purchase, you pay for the replacement or repair of all parts except the picture tube, and for all labor charges. After two years from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product used for commercial or institutional purposes.

WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS...

Contact a Philips factory service center (see enclosed list) or authorized service center to arrange repair.

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...

Please contact Philips at:

1-800-661-6162 (French Speaking)
1-800-363-7278 (English Speaking)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER...

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # ____________________

SERIAL # ____________________

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Philips Service Company, P.O. Box 555, Jefferson City, Tennessee 37760, (423) 475-8869

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